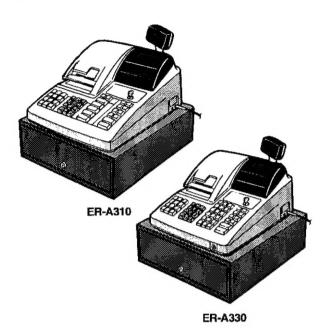
SHARP SERVICE MANUAL

CODE: 00ZERA310VSME



ELECTRONIC CASH REGISTER

ER-A310 MODEL ER-A330

SRV Key: LKGIM7113RCZZ PRINTER: ER-A310: CR-510

ER-A330: UCR-812A

(For "V" version)

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PARTS GUIDE

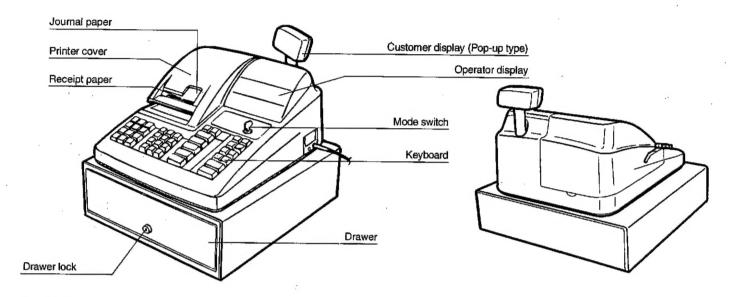
Parts marked with "A" is important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

CHAPTER 1. SPECIFICATIONS

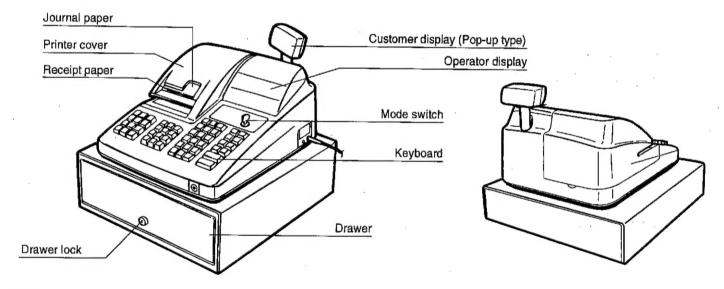
1. Appearance/Rating

1) Appearance

① ER-A310



@ ER-A330



2) Rating

	ER-A310	ER-A330						
Power source	AC local voltage	± 10%, 50/60 Hz						
Power consumption	Stand-by: 10W Operating: 31W (Max.)	Stand-by: 10W Operating: 36W (Max.)						
Operating temperature	0°C to 40°C							
Operating humidity	10% to 90% (RH)							
Physical dimensions, including the drawer	355 (W) × 424 (D) × 322 (H) mm	355 (W) × 425 (D) × 322 (H) mm						
Weight	11.5 kg	12.5 kg						

2. Keyboard

1) Standard keyboard layout

① ER-A310

								PLU AMT		DEPT #	CASH
								5		VAT	ESC
♠ NECEPT	† JOURNAL	CL		7	8	9		4		AUTO	EX
ЯСРТ	Θ	8		4	5	6		3		CR	CH.
VP	PO	RA		1	2	3		2		#/TN	A/ST
%	RF	တ		0	00			1		TL	NS
			t_r	иппу	key		L	Dummy key	Lour	nmy key	/

② ER-A330: For the TQ, TR, TS version

								PLU	AMT	DEPT #	A	υτο	ESC	
								5	10	15	٧	/AT	EX	
† RECEIPT	.JOUFINAL	CL		7	8	9		4	9	14	C	CR1	CR2	
асрт	Θ	8		4	5	6		_ 3	8	13	C	CH1	CH2	
٧P	PO	RA		1	2	3		2	7	12		#/ſM/ST		
%	RF	S		0	00			1	5	11		TL/NS		
Dummy key						1_	Dummy key				Dummy key			

③ ER-A330: For the KA, KB version

								PLU SUB	AMI	DEPT #		АШТО	CASH #	
								5	10	16		VAT	ESC	
↑ RECEIPT	4 JOURNAL	CL		7	8	9		4	9	14		ан	EX	
RCPT	Θ	8		4	5	8		3	8	13		CR1	CR2	
VP	PO	RA		1	2	3		2	7	12		#/TM/ST		
%	RF.	တ		0	00			1	6	11		TL	NS	
			1_	ummy	key		t_	Dummy	key		t_	Dummy	key	

2) Key top name

① Standard key top

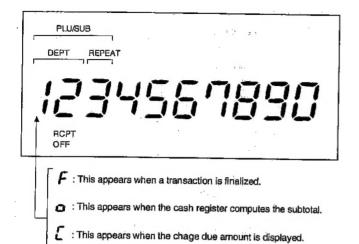
U Standard	noy top			
KEY TOP	DESCRIPTION	ER-A310	ER-A330 (TQ, TR, TS)	ER-A330 (KA, KB)
↑ RECEIPT	Receipt paper feed key	0	0	0
1 JOURNAL	Journal paper feed key	0	0	0
0~9,00	Numeric keys	0	0	0_
1	Decimal point key	0	0	0
8	Multiplication key	0	0	0
CL	Clear key	0	0	0
VP	Validation print key	0	0	0
Dept.1~5	Department 1~5 keys	0	×	×
Dept.1~15	Department 1~15 keys	×	0_	0
DEPT#	Department number entry key	0	0	0
PLU/SUB	PLU/Subdepartment key	0	0	0
AMT	Amount entry key	0	0	0
ESC	Error escape key	0	0	0
CASH#	Cashier number entry key	0	×	0
RCPT	Receipt print key	0	0	0
Θ	Discount key	0	0	0_
AUTO	Automatic sequencing key	0	0	0
%	Percent key	0	0	0
RA	Received on account key	0	0	0
· PO	Paid out key	0	0	0
RF	Refund key	0	0	0
cs	Void key	0	0	0
CH	Cheque key	0	×	0_
CH1, 2	Cheque 1 and 2 keys	×	0	×
CR	Credit key	0	×	×
CR1, 2	Credit 1 and 2 keys	×	0	0
EX	Foreign currency exchange key	0	0	0
VAT	Value added tax key	0	0	0
#/ T M/ST	Non-add code/Time display/ Subtotal key	0	0	0
TL/NS	Total/No sale key	0	0	0

② Optional key top

KEY TOP	DESCRIPTION	ER-A310	ER-A330 (TQ, TR, TS)	ER-A330 (KA, KB)
Dept. 6~30	Department 6~30 keys	0	×	×
Dept. 16~50	Department 16~50 keys	×	0	0
AUTO2	Automatic sequencing key	0	×	×
AUTO2-4	Automatic sequencing 2~4 keys	×	0	0
⊖2	Discount 2 key	0	0	0
CR2	Credit 2 key	0	×	×
EX2~4	Foreign currency exchange 2~4 keys	0	0	0
CA2	Cash total 2 key	0	0	0
CH2~4	Cheque 2~4 keys	0	×	0
CH3, 4	Cheque 3, 4 keys	×	0	×
%2	Percent 2 key	0	0	0
CASH#	Cashier number entry key	0	0	×

4. Display

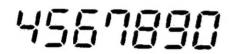
1) Operator display



DISPLAY DEVICE	LED
NUMBER OF LINE	1 line
NUMBER OF POSITIONS	10 positions
COLOR OF DISPLAY	Green
CHARACTER SIZE	14.2mm (H) × 8.0mm (H)

L: This appears when the batteries are low.

2) Customer display (Pop-up type)



DISPLAY DEVICE	LED
NUMBER OF LINE	1 line
NUMBER OF POSITIONS	7 positions
COLOR OF DISPLAY	Green
CHARACTER SIZE	14.2mm (H) × 8.0mm (H)

3) Lamps

o) Lamps		
	DISPLAY POSITION	DESCRIPTION
AMOUNT	1-8	
MINUS SIGN	4 ~ 10	- : Floating
ERROR	10	Ε
PGM MODE	10	ρ
TL/NS CH CR	10	E: Lights up when a registration is finalized by depressing TL/NS, CH or CR key
SUBTOTAL/ SHORT TENDER	10	o
CHANGE	10	 Lights up whenever the change due amount appears in the display.
DEPARTMENT	9 ~ 10	No zero-suppressed.
PLU	8 ~ 10	No zero-suppressed.
REPEAT	8	Endless count, starting from 2.
DECIMAL POINT	3-1	TAB
LOW BATTERY	10	Light up when the voltage of the battery for memory retention is lower than the regulated voltage. (The voltage is checked when "POWER ON" or "Batteries are exchanged".)
RECEIPT OFF	8	_
CASHIER No.	2-3	- OO -: 01 ~ 06 code entry
VALIDATION PRINT	10	່ປ່ : Light up when the validation printing is compulsory.

5. Printer

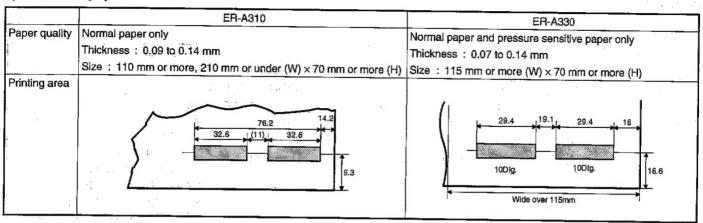
1) Printer specifications

ITEMS						ER-A	310							ER-A330										
Model name	CR-51	ON-010									UCR-812A													
No. of station	2 (Rec	eipt/	Journ	nal)										2 (Receipt/Journal)										
Printing system	Inner I	Inner hammer, rubber character selection type									Print wheel selective type													
Printing capacity	Receip	Receipt : Max. 12 chr.								Receip	t				10 cł									
	Journa	urnal : Max. 12 chr.						Journa	I		: 1	/lax.	10 cł	nr.										
	Valida	tion		: 1	Иах.	24 c	hr./1	line					Validat	ion				20 ct						
Character size	1.8mm	n (W)	× 2.	7mm	(H)								Figure			: 1	.7mi	m (W)×3	.2mr	n (H)			
													Symbo					n (W	•					
Print pitch	Colum	n dis	stance	e : :	2.8m	m							Colum	n dist	lance								2nd olumr	1
	Row d	listan	ice	: -	4.3m	m							Row di	stand	е	: 5	i.1mi	m						
Print speed	Appro	x. 3.0) line:	s/sec						-			Approx	. 2.6	lines	s/sec.								
Paper feed speed	Appro	x. 29	lines	/sec.	at re	ceip	tissu	ed.					Approx	. 18	lines	/sec.	at re	ceipt	issu	ed.				
Reliability	MCBF												MCBF	2 mil	lion l	lines								
Validation form sensor	No							-					No											
Near end sensor	Journa	al sid	e: No)									Journal side: No											
	Recei	pt sic	te: No	5									Receipt side: No											
Cutter	Manua	al											Manua	Manual										
Print wheel layout	Parts	code	: 00B	M75	5001	020							Parts code: 00BM712002310											
, , , , , , , , , , , , , , , , , , ,	12	11	10	9	8	7	6	5	4	3	2	1		10	9	8	7	6	5	4	3	2	1	
	PL		GT		_		-		_		CA			PL	Z	TX					GT	CA	@	
	0	0	0	0	0	0	0	0	0	CD	СН	1/2		-	_	-	-	-	-	-	#	CH	Q	
	1	1	1	1	1	1	1	1	1	Р	CK	1		*	*	*	*	*	*	*	%	CR	\rightarrow	
	2	2	2	2	2	2	2	2	2	Х	CR	2												
	3	3	3	3	3	3	3	3	3	Z	EX	3		0	0	0	0	0	0	0	0	4	←	
	4	4	4	4	4	4	4	4	4	#	TX	4		1	1	1	1	1	1	1	1	•	1	
	5	5	5	5	5	5	5	5	5	RF	VT	5		2	2	2	2	2	2	2	2	S	2	
	6	6	6	6	6	6	6	6	6	S	%	6		3	3	3	3	3	3	3	3	NS	3	
	7	7	7	7	7	7	7	7	7	TR	Θ	7		4	4	4	4	4	4	4	4	TX	4	
	8	8	8	8	8	8	8	8	8	Q	4	\rightarrow		5	5	5	5	5	5	5	5	VT	5	
	9	9	9	9	9	9	9	9	9	@	>	4		6	6	6	6	6	6	6	6	Θ	6	
1	*	*	*	*	*	*	*	*	*	+	NS	TL		7	7	7	7	7	7	7	7	X	S	
	_	-	1-	_					No	-	*	ST		8	8	8	8	8	8	8	8	EX	ST	
				-		1	-	-	-					9	9	9	9	9	9	9	9	RF	TL	
															-			•						

2) Roll paper

Parts code	DPAPR1006CSZZ
Dimension	44.5±0.5mm in width Max. 83mm in diameter
Paper quality	Journal/Receipt
	Fine quality paper
	Paper thickness : 0.06 to 0.09 mm
	Paper weight : 52.3 to 64g/m ²
	Validation form
	Normal paper only
	Thickness : 0.09 to 0.14 mm
	Size : 110mm or more, 210mm or under (W) × 70mm or more (H)

3) Validation paper



4) Inking

	ER-A310	ER-A330
Parts code	NROLR6652RCZZ	NROLR6638RCZZ
lnk supply system	Ink roller	ink roller
Form	Roller	Roller
Specification	Material-rubber	Material-rubber
Roller life	Approx. 0.4 million lines	Approx. 0.6 million lines
Print color	Purple	Purple

5) Logo stamp

	ER-A310	ER-A330
Material	Porous rubber	Porous rubber
Size	30mm (W) × 20mm (H)	30mm (W) × 20mm (H)
Color	Purple	Purple
Parts code for ink	UINK1001CCZZ	UINK1001CCZZ

6. Drawer

1) Drawer box and drawer

Model name	SK420	
Size	355(W) × 420(D) × 118(H) mm	
Color	Light olive gray	
Material	Metal	
Bell		
Release lever	Standard equipment; Situated at the bottom	
Drawer open sensor Standard equipment		

3) Lock

Location of the lock	Front	
Method of locking and unlocking	Locking	: Insert the drawer lock key into the lock and turn it 90 degrees counterclockwise.
<u> </u>	Unlocking	: Insert the drawer lock key into the lock and turn it 90 degrees clockwise.
Key No.	SK1-1	

2) Money case

Separation from the drawer	Allowed
Separation of the coin compartments from the money case	Allowed
Bill separator	_
Number of compartments	5B/8C
	mpartments

7. Memory back up

For memory back up, the dry battery ULM-3 (3 pieces) is needed.

- Memory holding time: Approximate 1 year after NEW dry batterles are inserted.
- 2. Battery exchange method: When the low battery symbol "L" lights up, batteries (3 pieces) exchange by the following method, within 2 days.
 - 1) Power on the ECR.
 - 2) Turn the MODE SW to "OP X/Z" mode.
 - 3) Release the OLD dry batteries (3 pieces).
 - 4) Insert the NEW dry batteries (3 pieces).
 - 5) Confirm the low battery symbol "L" lights off.

8. One hole cashier key

Standard provision for the TQ, TR, and TS versions of the RE-A330. The KA and the KB version of the ER-A310 and the ER-A330 are treated as service root option.

Number of varieties of keys: 6 (ER-A330)/4 (ER-A310)

CHAPTER 2. OPTIONS

1. Sales options

No.	NAME	MODEL	DESCRIPTIONS
1	REMOTE DRAWER	ER-04DW	5B/8C
2	COIN CASE	ER-58CC	5B/8C
3	COIN CASE COVER	ER-03CV	
4	KEY TOP KIT	ER-11KT7	1 × 1 key top
		ER-12KT7	1 × 2 key top
		ER-22KT7	2 × 2 key top
		ER-11DK7	1 × 1 dummy key
		ER-51DK7	5 x 1 dummy key

2. Service options

No.	NAME	PARTS CODE	PRICE RANK	DESCRIPTIONS
100.	SRV KEY	LKGIM7113RCZZ	AK	
2	MODE KEYGRIP COVER	LKGiM7126RCZZ	AL	OP key only
3	DRIP-PROOF KEYBOARD COVER	GCOVH7126BHZZ	BE	
4	DRIP-PROOF MODE SWITCH COVER	GCOVH7127BHZZ	BA	
5	SHIELD PLATE KIT	DKIT-8666BHZZ	BL	Only for ER-A330
6	ONE HOLE CASHIER KEY KIT	DKiT-8669BHZZ	ВТ	
7	DRAWER FIXING KIT	DKiT-8670BHZZ	AP	

3. Supplies

No.	NAME	PARTS CODE	PRICE RANK	DESCRIPTIONS
1	ROLL PAPER	DPAPR1006CSZZ	AR ·	
	INK ROLLER (ER-A310)	NROLR6652RCZZ	AZ	
	INK ROLLER (ER-A330)	NROLR6638RCZZ	AY	
4	INK FOR STAMP	UINK-1001CCZZ	AK	

CHAPTER 3. SRV RESET AND MASTER RESET

The SRV key is used for operating in the SRV mode.

1. SRV. reset (Program Loop Reset)

Used to return the machine back to its operational state after a lockup has occurred.

Procedure

- Method 1
- 1) Turn off the AC switch.
- 2) Set the mode switch to (SRV') position.
- 3) Turn on the AC switch.
- 4) Turn to (SRV) position from (SRV') position.
- Method 2
- 1) Set the mode switch to PGM position.
- 2) Turn off the AC switch.
- 3) While holding down JOURNAL FEED key and RECEIPT FEED key, turn on the AC switch.

2. Master reset (All memory clear)

There are two possible methods to perform a master reset.

MRS-1

Used to clear all memory contents and return machine back to its initial settings, return keyboard back to default, for default keyboard layout.

Procedure-1 (with SRV key)

- 1) Unplug the AC cord from the wall outlet.
- 2) Set the MODE switch to the (SRV') position.
- 3) Plug in the AC cord to the wall outlet.
- While holding down JOURNAL FEED key, turn to (SRV) position from (SRV') position.

Procedure-2 (without SRV key)

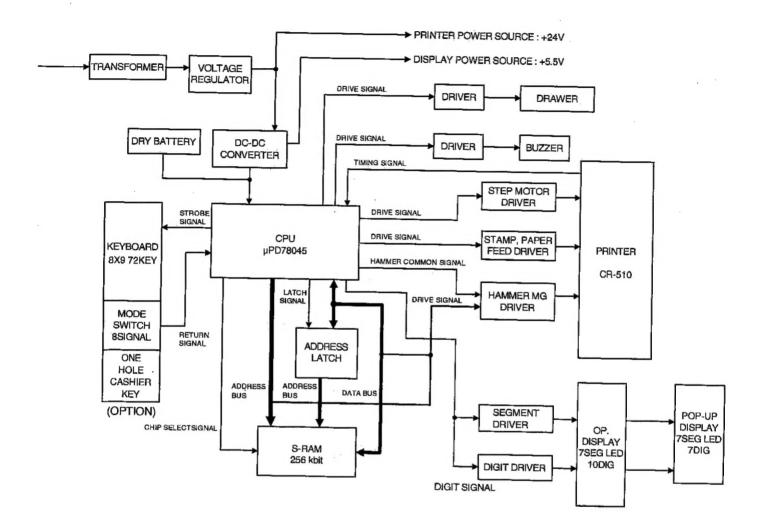
- 1) Turn the mode switch to the (REG) position.
- Ensure the batteries are not installed in the battery compartment and insert the plug into the outlet.
- 3) The right most decimal point will blink for a few seconds.
- 4) The register will sound three beeps.
- 5) The register will display " [

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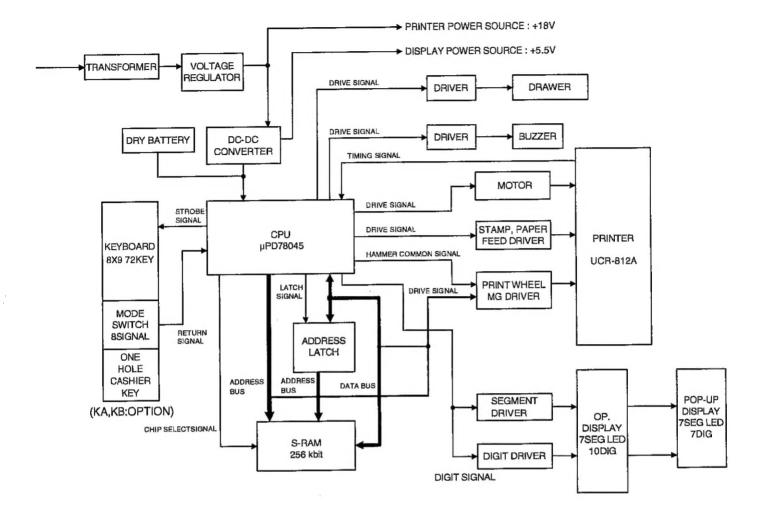
CHAPTER 4. HARDWARE DESCRIPTION

1. Block diagram

1) ER-A310



2) ER-A330



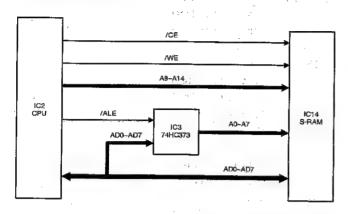
2. CPU (UPD78045F) pin configuration

	· ·	1	50 4040				
No.	PIN NAME	SIGNAL NAME	ER-A310		ER-A330	1/0	ACTIV
1	P94			SIGNAL NAME	DESCRIPTION	.,,	AOTIV
2	P93	DIG7	Display digit 7	DIG7	Display digit 7	0	Н
3		DIG6	Display digit 6	DIG6	Display digit 6	0	Н
	P92	DIG5	Display digit 5	DIG5	Display digit 5	0	Н
4	P91	DIG4	Display digit 4	DIG4	Display digit 4	0	Н
5	P90	DIG3	Display digit 3	DIG3	Display digit 3	0	Н
6	P81	DIG2	Display digit 2	DIG2	Display digit 2	0	Н
7	P80	DIG1	Display digit 1	DIG1	Display digit 1	0	Н
8	VDD	VDD	+5V	VDD	+5V		-
9	P27	AD7	RAM Address & Data bus 7	AD7	RAM Address & Data bus 7 Printer magnet 8	1/0	Н
10	P26	AD6	RAM Address & Data bus 6	AD6	RAM Address & Data bus 6 Printer magnet 7	1/0	Н
11	P25	AD5	RAM Address & Data bus 5 Journal print magnet 6	AD5	RAM Address & Data bus 5 Printer magnet 6	1/0	Н
		,	Receipt print magnet 6		Finite magnet o		
12	P24	AD4	RAM Address & Data bus 4	AD4	RAM Address & Data bus 4	1/2	
	4		Journal print magnet 5	7,04		1/0	Н
			Receipt print magnet 5	1	Printer magnet 5		
13	P23	AD3	RAM Address & Data bus 3	AD3	DAM Address & Date 1		
			Journal print magnet 4	ADS	RAM Address & Data bus 3	.1/0	H
			Receipt print magnet 4		Printer magnet 4		
14	P22	AD2	RAM Address & Data bus 2	AD2	DAM Address 8 Date 1		
ĺ			Journal print magnet 3	ADZ	RAM Address & Data bus 2	1/0	Н
			Receipt print magnet 3		Printer magnet 3		
15	P21	AD1	RAM Address & Data bus 1	154			
	12.	ADI		AD1	RAM Address & Data bus 1	1/0	Н
		11	Journal print magnet 2		Printer magnet 2		
16	P20	AD0	Receipt print magnet 2				
10	120	ADU	RAM Address & Data bus 0	AD0	RAM Address & Data bus 0	1/0	Н
}			Journal print magnet 1		Printer magnet 1		
17	(DEDET	(DEOFT	Receipt print magnet 1				
17	/RESET	/RESET	Reset signal	/RESET	Reset signal	1	L
18	P74	SCOM	Printer step motor common signal	NU	NU	0	Н
19	P73	SM4	Printer step motor drive signal 4	NU	NU	0	Н
20	AVSS	AVSS	GND	AVSS	GND		
21	P17	KR11	Key return signal 11	KR11	Key return signal 11		Н
22	P16	KR10	Key return signal 10	KR10	Key return signal 10		H
23	P15	KR9	Key return signal 9	KR9	Key return signal 9	1	Н.
24	P14	KR8	Key return signal 8	KR8	Key return signal 8		
25	P13	KR7	Key return signal 7	KR7	Key return signal 7		—:-
26	P12	KR6	Key return signal 6	KR6	Key return signal 6		— <u>''</u>
27	P11	KR5	Key return signal 5	KR5	Key return signal 5	+ ; +	—
28	P10	P10	Dry battery voltage	P10	Dry battery voltage	 	
29	AVDD	AVDD	+5V	AVDD	+5V	+ '+	
30	AVREF	AVREF	+5V (VCC)	AVREF	+5V (VCC)	+	
31	XT1	XT1	Sub clock: 32.768 kHz	XT1	Sub clock: 32.768 kHz	+ $+$	
32	XT2	XT2		XT2	000 0100N. UZ.7 UO NITZ	1	
33	VSS		GND		GND	0	
34	X1		Main clock: 4.19 MHz			+ + +	
35	X2	X2	-	X2	Main clock: 4.19 MHz	-	
36	P37		Printer motor ON signal		Printer motes ON stand	0	
7	P36		Buzzer ON signal		Printer motor ON signal	0	Н
8	P35		Receipt paper feed signal		Buzzer ON signal	0	H/L
9	P34		Journal paper feed signal		Receipt paper feed signal	0	H
0	P33		Stamp ON signal		Journal paper feed signal	0	Н
	. 55	O 17 69H	Ottamp Oly signal	STAMP	Stamp ON signal	0	Н

			ER-A310		ER-A330	- 1/0	ACTIVE
No.	PIN NAME	SIGNAL NAME DESCRIPTION		SIGNAL NAME	DESCRIPTION		AOTIVE
41	P32	/ALE	Address latch signal	/ALE	Address latch signal	0	1
42	P31	/CE	Chip select signal	/CE	Chip select signal	0	L
43	P30	/WE	Write signal	WE	Write signal	0	L
44	P03	RMS	NU	RMS	NU	1	
45	P02	R	Printer reset signal	DRS	Drawer open sensor	l	
46	P01	Т	Printer timing signal	α	Printer timing signal	1	↑H
47	P00	PE	Power enable signal	PE	Power enable signal	1	H
48	IC	IC	VSS	IC	VSS		
49	P72	SM3	Printer step motor drive signal 3	P72	NU	0	H
50	P71	SM2	Printer step motor drive signal 2	MG10	Printer magnet 10	0	Н
51	P70	SM1	Printer step motor drive signal 1	MG9	Printer magnet 9	0	Н
52	VDD	VDD	+5V	VDD	+5V		
53	P127	DRS	Drawer open sensor (input)	R-COM	Printer receipt common signal	0	Н
54	P126	НСОМ	Printer hammer common signal	J-COM	Printer journal common signal	0	Н
55	P125	J1	Mode signal (ER-A310: GND)	J1	Mode signal (ER-A330: VDD)	1	Н
56	P124	DR1	Standard drawer drive signal	DR1	Standard drawer drive signal	0	Н
57	P123	KR4	Key return signal 4	KR4	Key return signal 4	1	Н
58	P122	KR3	Key return signal 3	KR3	Key return signal 3	1	Н
59	P121	KR2	Key return signal 2	KR2	Key return signal 2	l	Н
60	P120	KR1	Key return signal 1	KR1	Key return signal 1	_ 1	Н
61	P117	A14	RAM Address 14	A14	RAM Address 14	0	
62	P116	A13	RAM Address 13	A13	RAM Address 13	0	
63	P115	A12	RAM Address 12	A12	RAM Address 12	0	
64	P114	A11	RAM Address 11	A11	RAM Address 11	0	
65	P113	A10	RAM Address 10	A10	RAM Address 10	0	
66	P112	A9	RAM Address 9	A9	RAM Address 9	0_	
67	P111	A8	RAM Address 8	A8	RAM Address 8	0	
68	P110	DR2	Option drawer drive signal	DR2	Option drawer drive signal	0	Н
		DD/070	Display segment signal DP	DP/ST8	Display segment signal DP	0	Н
69	P107	DP/ST8	Key strobe signal 8	DF/316	Key strobe signal 8		
		0.4077	Display segment signal G	G/ST7	Display segment signal G	0	н
70	P106	G/ST7	Key strobe signal 7	G/317	Key strobe signal 7		
71	VLOAD	VLOAD	VSS	VLOAD	VSS		
	Die	FIOTO	Display segment signal F	F/ST6	Display segment signal F	0	н
72	P105	F/ST6	Key strobe signal 6	17010	Key strobe signal 6		<u> </u>
	2404	FIOTE	Display segment signal E	E/ST5	Display segment signal E	0	Н
73	P104	E/ST5	Key strobe signal 5	2/6/10	Key strobe signal 5		
	D400	D/CT4	Display segment signal D	D/ST4	Display segment signal D	0	Н
74	P103	D/ST4	Key strobe signal 4	5/614	Key strobe signal 4		
	2400	0/070	Display segment signal C	C/ST3	Display segment signal C	0	Н
75	P102	C/ST3	Key strobe signal 3	0/010	Key strobe signal 3		
	5404	D/OTO	Display segment signal B	B/ST2	Display segment signal B	0	Н
76	P101	B/ST2	Key strobe signal 2	0/012	Key strobe signal 2		<u> </u>
		A IOTA	Display segment signal A	A/ST1	Display segment signal A	0	н
77	P100	A/ST1	Key strobe signal 1	7/311	Key strobe signal 1		1,
78	P97	DIG10	Display digit signal 10	DIG10	Display digit signal 10	0	Н
79	P96	DIG9	Display digit signal 9	DIG9	Display digit signal 9	0	Н
80	P95	DIG8	Display digit signal 8	DIG8	Display digit signal 8	0	Н

ER-A330 "TQ", "TS": High ER-A330 "KA", "KB": Low

3. RAM control



WE:

Write signal

When the signal is low, writing is performed. When the

signal is high, reading is performed.

/CE: Chip select signal

A8-A14: Address bus

AD0-7: Address/Data bus

A0-1: Address bus signal

/ALE: Address latch signal

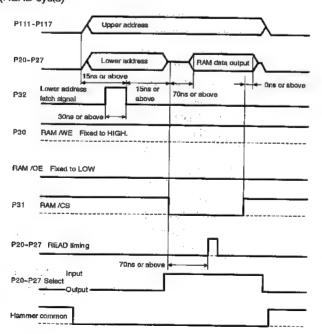
Address signals A0-A7 are used commonly with the data bus. When the address latch signal /ALE is input to IC3, the address/data bus signal AD0-AD7 access the RAM as address signals A0-A7.

(READ)

As shown in the attached time chart, address signals are outputted from P20-P27, P111-P117, and the lower address is latched with P32. The modes at P20-P27 are changed to the input mode. The chip enable signal (P31) is output for the RAM. Then the output data from the RAM are read from P20-P27.

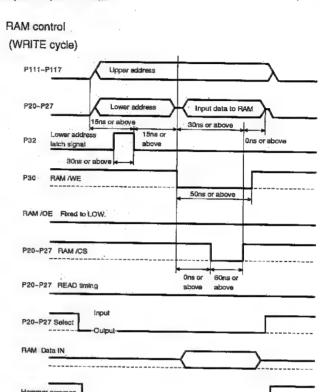
RAM control

(READ cycle)



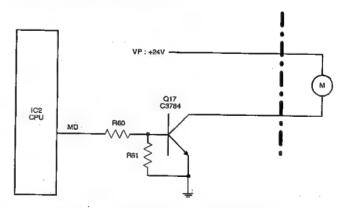
(WRITE)

As shown in the attached time chart, address signals are outputted from P20-P27, P111-P117, and the lower address is latched with P32. The write enable signal (P30) is output. The write data to the RAM are output from P20-P27. Then the chip enable signal (P31) is output to write the data.



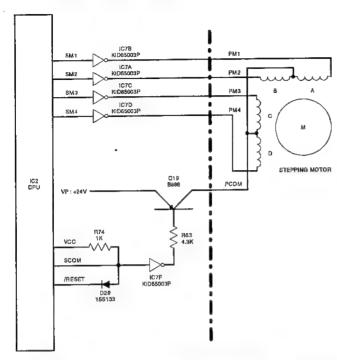
4. Printer control circuit (ER-A310)

1) Printer motor drive circuit



The motor drive signal MD from the CPU is used to operate the printer motor with switching operation of transistor Q17.

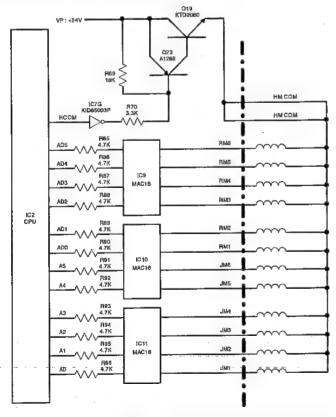
2) Print wheel drive circuit



The stepping motor is used to drive the printer wheel.

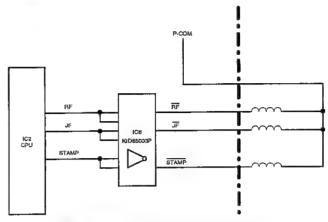
The common signal SCOM from the CPU is used to supply voltage VP to the stepping motor with the switching operation of transistor Q19, and the stepping motor solenoid drive signal is used to operate the stepping motor.

3) Print solenoid drive circuit



Since the address bus is used to drive the print solenoid, an access to the RAM cannot be performed during printing. The common voltage of the print solenoid is supplied by switching operations of transistors Q23 and Q19 with the HCOM signal.

Paper feed solenoid and stamp solenoid drive circuit

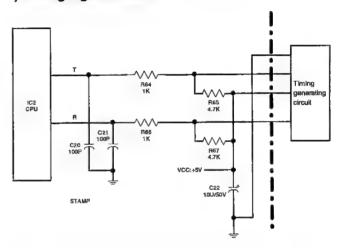


PF: Paper feed solenoid drive signal (Receipt side)

JF: Paper feed solenoid drive signal (Journal side)

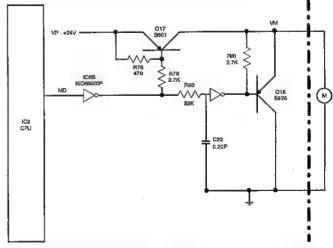
STAMP: Stamp solenoid drive signal (Receipt side)

5) Timing signal circuit



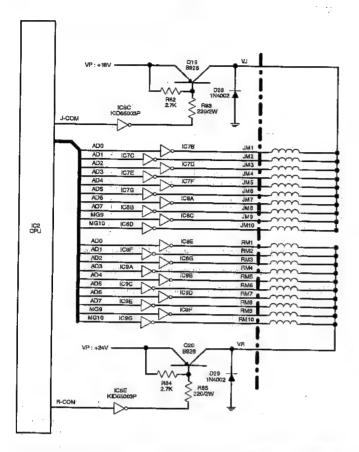
5. Printer motor drive circuit (ER-A330)

1) Printer motor drive and brake circuit



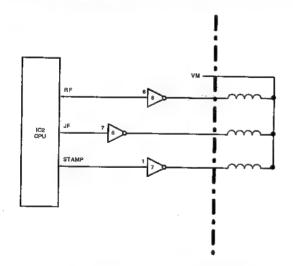
The printer motor is operated by switching operation of transistor Q17 with the motor drive signal MD from the CPU.

2) Print solenoid drive circuit



Since the address bus is used to drive the print solenoid, an access to the RAM cannot be performed during printing. The common voltage of the print solenoid is supplied by switching operations of transistors Q23 and Q19 with the J-COM signal and the R-COM signal.

3) Paper feed solenoid and stamp solenoid drive circuit

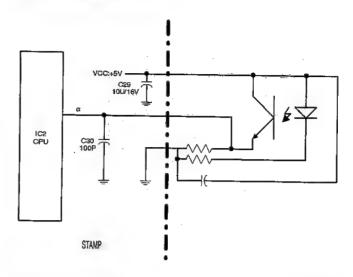


PF: Paper feed solenoid drive signal (Receipt side)

JF: Paper feed solenoid drive signal (Journal side)

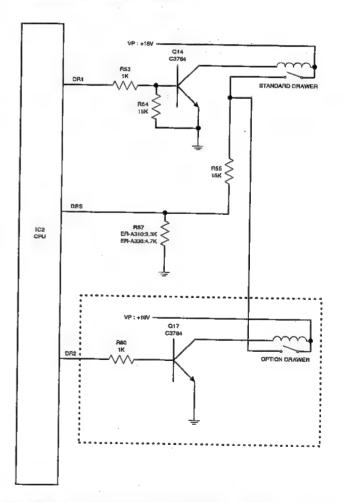
STAMP: Stamp solenoid drive signal (Receipt side)

4) Timing signal circuit



The timing signal α is delivered to the CPU by the photo transistor attached to the printer.

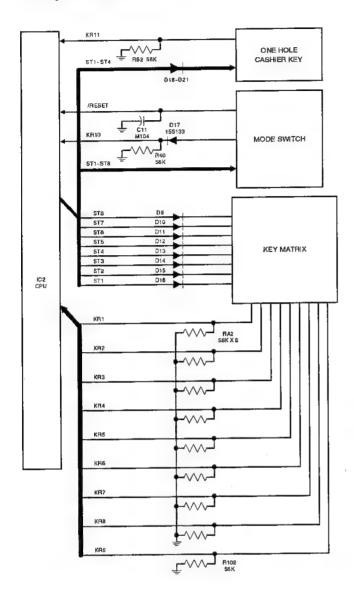
6. Drawer drive circuit



The solenoid is driven by switching operation of transistor Q14 with the drive signal DR1 from the CPU.

When an option drawer is used, the parts enclosed with the dotted line must be attached to the PWB.

7. Keyboard circuit

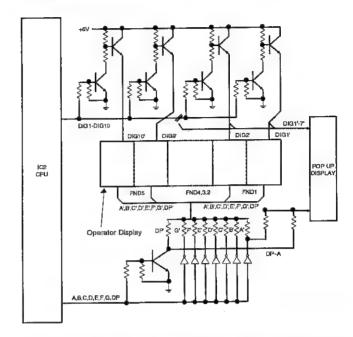


The keyboard performs key scanning with the eight strobe signals ST1-ST8, and returns the nine return signal KR1-KR9 to the CPU.

The mode switch performs scanning with the eight strobe signals ST1-ST8, and returns the return signal KR10 to the CPU. When the mode switch is at SRV position, the reset signal /RESET is outputted.

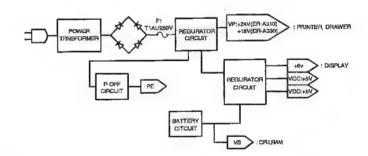
The one hole cashier switch performs scanning with four strobe signals ST1 ~ ST4, and returns the return signal KR11 to the CPU.

8. Display circuit

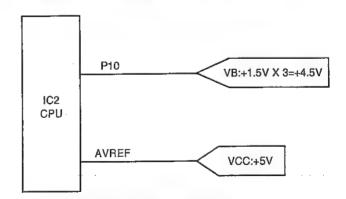


The 7-segment LED is used in the display. The operator display uses 10 digit signals, and the pop-up display uses 7 digit signals.

9. Power supply circuit

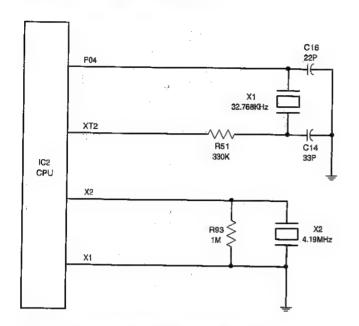


10. Battery voltage monitor circuit



The battery voltage signal is inputted to the CPU P10 and the comparison reference voltage VCC (+5V) is inputted to the CPU VREF to monitor the battery voltage. When the input to P10 falls below 7/10VCC=+3.5V, the low battery display is made.

11. Clock generator circuit



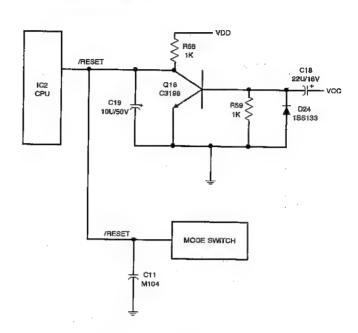
X2:

4.19MHz is inputted as the CPU main clock.

X1:

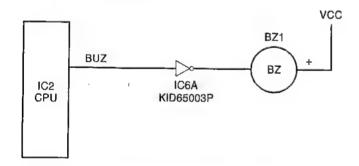
32.768KHz is inputted as the time renewal clock.

13. Reset circuit



The reset signal is formed with VOC and VDD. The /RESET signal is also outputted when the mode switch is at SRV position.

12. Buzzer circuit



This circuit sounds buzzer with the BUS signal from the CPU.

CHAPTER 5 TEST FUNCTION

1. Start of test function

The following key operation is required in the SRV mode to start the test.

Test command

Master reset is required when the system is to be started for the first time

2. List of test commands

No.	Test contents	Key operations
1	Mode switch test	1 → ST
2	One hole cashier SW test	8 → ST
3	Keyboard test	XXXX02 → ST
4	Display and Buzzer test	3 → ST
5	Standard Drawer test	4 → ST
6	Option Drawer test	14 → ST
7	Printer test	$5 \rightarrow ST$
8	RAM test	6 → ST
9	Battery voltage test	7 → ST

NOTE-1: Test message is printed on the journal

NOTE-2: The contents of the totalizer and the preset values are not erased by the test.

3. Test function

1) Test No. 1: Mode switch test

Key operation

Then, turn the mode switches in the following order.

* In the mode switch test, turn the switch rhythmically.

MODE: SRV
$$\rightarrow$$
PGM \rightarrow VOID \rightarrow OFF \rightarrow OP X/Z \rightarrow REG \rightarrow MGR \rightarrow X1/Z(\rightarrow X2/Z2 \rightarrow SRV DISPLAYE: (0) \rightarrow (1) \rightarrow (2) \rightarrow OFF \rightarrow (3) \rightarrow (4) \rightarrow (5) \rightarrow (6) \rightarrow (7) \rightarrow (0)

② Description

As the mode switch position number is displayed, check the num-

③ Termination

The test can be terminated when the mode switch is turned to the SRV side from other position.

Termination print at normal end

Termination print and error

2) Test No. 2: One hole cashier key test

① Key operation

② Details of the test

Insert the cashier key, and the key code will be displayed. Set the mode switch to another position than SRV to complete the test.

③ Check item

Insert the cashier key from 1 sequentially.

Display

08 01 08 02

03

08 05

08 06 ER-A330

4 Test end

ŊŖ

If it comes to the right turn, "

08" is printed and the opera-

tion is terminated.

If it comes to a wrong turn, the error print "**** 08" is printed.

3) Test No. 3: Keyboard test

Key operation

 Enter the test command in succession to the sum check data of the model.

Model name	Sum check data (Standard keyboard data)
ER-A310	2282
ER-A330	3017

*NOTE: Sum check data

The check sum is a decimal number obtained by converting the hard code hexadecimal total of all keys.

The TL/NS key are the exception.

(2) Next, push every key on the keyboard except for the receipt and journal keys.

When the TL/NS key is pressed, the termination printout is immediately produced assuming that all keys have been pressed.

There is no order in which the keys have to be depressed.

Display: 02 $XX \leftarrow XX = position code.$

[Keyboard position code of model vs. key to be pressed] [All key position code]

								65	68	67	58	77	78
								66	55	56	57	48	38
† R	† J	61	64	63	54	53	62	42	45	35	46	47	37
70	41	31	44	34	43	33	52	32	76	75	36	28	27
10	21	20	24	74	23	73	22	72	15	05	16	17	18
00	11	01	14	04	13	03	12	02	26	25	06	07	08

[ER-A310 standard keyboard layout]

							65	68		77	78
								55		48	38
† R	† J	61	6	33	54	53		45		47	37
70	41	31	3	34	43	33		76		28	27
10	21	20	. 7	74	23	73		15			18
00	11	01	C)4	13	03	20.700	26			08

[ER-A330 standard keyboard layout]

						65	68	67	77	.78
						66	55	56	48	38
R	J	61	63	54	53	42	45	35	47	37
70	41	31	34	43	33	32	76	75	28	27
10	21	20	74	23	73	72	15	05		18
00	11	01	04	13	03	02	26	25		08

② Description

Until the depression of the ST key, the sum of key position codes is compared with the sum check data, except for the TL/NS key.

③ Termination

The test terminates with the depression of the TL/NS key and the termination printout is produced.

Termination print at normal end

0.2

Termination print at error

(ER-A310) ---- 02

(ER-A330) ----0 2

4) Test No. 4: Display and buzzer test

Key operation

2 Description

Continuous beeps and the display are tested.

1. 2. 3. 4. 5., 6. 7. 8. 9. 0.

State of display

The decimal point is shifted digit by digit from the lowest digit (every 200 msec).

Then all segments are lighted (for about 1 sec).

8. 8. 8. 8. 8. 8. 8. 8. 8. 8.

State of display

Pressing any key will terminate the test.

3 Check items

Check that each position display is correct.
Check that the display is even and uniform.
Check that the buzzer sound is normal. (No interruption and vibrations of sounds.)

Test end

End print

03

5) Test No. 5, 6: Drawer open test

① Key operation

4 ST : For stardard drawer

② Description

With this test, the drawer opens and its state is displayed in the following manner:

Drawer open $\rightarrow XX$ 0

Drawer closed $\rightarrow XX$ C

XX = 04 or 14

* When the model that has no drawer sensor switch, displayed is "C".

③ Termination

With depression of any key

Termination print

04 (For standard drawer)

14 (For Option drawer)

6) Test No. 7: Continuous print test

① Key operation

5 → ST

② Description

The continuous printing as shown below is performed.

③ Termination

After pressing any key, one-cycle of printing is performed before completing the operation.

Print format

ER-A310

	.010										
0	0	0	0	0	0	0	0	0	CD	CH	1/2
1	1	1	1	1	1	1	1	1	P	CK	1
2	2	2	2	2	2	2	2	2	Х	CR	2
3	3	3	3	3	3	3	3	3	Z	EX	3
4	4	4	4	4	4	4	4	4	#	TX	4
5	-5	5	5	5	5	5	5	5	RF	VT	5
6	6	6	6	6	6	6	6	6	S	%	6
7	7	7	7	7	7	7	7	7	TR	Θ	7
8	8	8	8	8	8	8	8	8	Q	•	\rightarrow
9	9	9	9	9	9	9	9	9	@	•	←
*	*	*	*	*	*	*	*	*	+	NS	TL
-			,-				•	No	1	*	ST
PL		GT		-		-		-,	-	CA	
	1										
		2									
			3								
\perp				4							
	_				5						
						6					
							7				
								8			
	\perp		_			_ ;			9		
					, .					NS	
											ST

·		
	•	

SHARP PARTS GUIDE

ER-A310 MODEL ER-A330

SRV Key: LKGIM7113RCZZ PRINTER: ER-A310: CR-510

ER-A330: UCR-812A

(For KA, KB, TQ, TS)

CONTENTS

1 Exteriors[ER-A310]

2 Exteriors[ER-A330]

3 Keyboard unit

4 Packing material&Accessories

5 Drawer box unit (SK423type)

6 Main PWB unit[ER-A310]

7 Main PWB unit[ER-A330]

8 Pop-up PWB unit

9 Articles for consumption

10 Service route options

Index

SELECTION

CODE

Because parts marked with \triangle is indispensable for the machine safety maintenance and operation, it must be replaced with the parts specific to the product specification.

Table of destinations

SELECTION CODE	COUNTRIES
U	U.S.A., Guam
Α	Canada
TS	Germany
TQ	SEEG territory other than Germany (Stamp: English)
TR	SEEG territory other than Germany (Stamp: Spanish)
KB	U. Kingdom
KA	Australia

SELECTION CODE		COUNTRIES
К	Korea	

CODE	
SB	Saudi Arabia (127V area)
SBA	Saudi Arabia (220V area)
SC	Taiwan
SD	Venezuela
SE	Hong Kong
SG	Lebanon, Syria, Greece, Pakistan, Iran, Egypt, Thailand, Iraq, Mauritius, Seychelles, Tahiti, Jordan, Sudan, Turkey
SH	South Africa (U.S.A.version)
SHE	South Africa (Europe version)
SJ	Phillippines (Europe version)
SJ2	Phillippines (U.S.A. version)
SM	Kuwait, Qatar, Oman, UAE, Malta, Bahrain
SMT	Nigeria, Yemen, Kenya

COUNTRIES

SELECTION CODE	COUNTRIES
RA1	Morocco, Algeria, Tunisia, West Africa
RA2	Chile, Uruguay, Peru, Argentina, Paraguay
RA5	Sri Lanka

SELECTION CODE	COUNTRIES
RB3	Indonesia
RB4	
RB5	Cyprus
RB6	Panama
RB7	Barbados
RB8	Malaysia (U.S.A. version)

SELECTION CODE	COUNTRIES
RC1	Malaysia (Europe version)
RC2	Singapore
RC5	Dominican Republic, Ecuador

[6] Main PWB unit[ER-A310]

6	Main PWB unit[ER-	-A310]			
NO.	PARTS CODE	PRICE	NEW MARK	PART	DESCRIPTION	
20	VRD-RC2EY392J	AA		С	Resistor (1/4W 3.9KΩ ±5%)	[R2] [R63,65,67,83,85~96]
	VRD-RC2EY472J	AA		C	Resistor (1/4W 4.7KΩ ±5%) Resistor (1/4W 56KΩ ±5%)	[R3,40,52,102]
22	VRD-RC2EY563J VHEMTZ18B//-1	AA		В	Zener diode (MTZ18B)	[ZD2]
24		AB		В	Zener diode (MTZJ27A)	[ZD1]
	VHERD6 . 2EB2-1	AB		В	Zener diode (MTZ6.2B)(VHEMTZ6.2B/-1)	[ZD5] [ZD29]
_	VHERD24EB2/-1	AB		В	Zener diode (MTZJ24B)(VHEMTZJ24B/-1)	[F1]
27		AC		A C	Fuse holder Capacitor (50WV 0.033µ F)	[C1]
	VCQYNA1HM333K VCEAGA1HW106M	AA		C	Capacitor (50WV 10µ F)	[C22]
	VCEAGA1HW335M	AB		С	Capacitor (50WV 3.3µ F)	[C5]
31		AB		С	Capacitor (16WV 330µ F)	[C9,10] [C7]
32		AB		C	Capacitor (50WV 220pF) Capacitor (16WV 10μ F)	[C27]
33	VCEAGA1CW106M VCCCPU1HH330J	AA		C	Capacitor (50WV 33pF)	[C14]
35		AA		C	Capacitor (50WV 22pF)	[C16]
36		AB		С	Capacitor (16WV 22μ F)	[C18] [C20,21,24,29]
	VCKYPU1HB102K	AA_		C	Capacitor (50WV 0.001µF) Capacitor (50WV 330pF)	[C25,28]
	VCKYPU1HB331K	AA		C B	Transistor (2SC945)(VS2SC3198-/-1)	[Q3-13,22]
40	VSDSC001-//-1 VSDSA001-//-1	AA		В	Transistor (2SA1266)(VS2SA1266-/-1)	[Q23]
41		AD		В	Transistor (KTA1271)(VS2SA1271-/-1)	[Q31,32,33]
42	VS2SB926-S/TC	AD		В	Transistor (2SB926-S/TC)	[Q34~40] [C6,11,12,23,26,31,34]
43	RC-KZ1054CCZZ	AB		C	Capacitor (50WV 0.1μ F) Capacitor (10WV 10μ F)	[C13,19]
44	RC-EZ106ARC1A VCKYPU1HB332K	AD		C	Capacitor (10WV 10µF)	[C36]
	VCKYPU1HB332K	AA		Č_	Capacitor (50WV 2200pF)	[C37]
47		AA		С	Capacitor (50WV 10000pF)	[C32]
48	VHD1D4B42//-1	AD		В	Diode (1D4B42)(VHDDI102/BH-1)	[BD1] [C2]
	VCEAGU1HW478M	AL	-	C	Capacitor (50WV 4700μ F) Capacitor (50WV 330μ F)	[C4]
51	VCEAGU1HW337M VCEAGU1CW108M	AC AD	-	C	Capacitor (16WV 1000µ F)	[C8]
52		AM	-	В	LED (HDSP-5621 2SEG green)	[FND1-5]
	VS2SC3784-/-1	AD		В	Transistor (2SC3784)	[Q14,17,20] [CN1]
	QCNCM1101CCZZ	AB		C	Connector (2pin)(QCNCM1101BHZZ) Connector (2P)(5267-02A)(Blue)	[CN2]
	QCNCW7081BHZZ	AB		C	Connector (2P)(5267-02A)(Bide)	[CN7]
	QCNCW6882BH1A QCNCW7118BH0H	AG	-	C	Connector (8pin)(5229-C8XPB)	[CN5]
58	QCNCW7118BH01	ВН		С	Connector (9pin)(5229-09CPB)	[CN8]
59	QCNCW7201BH1E	AK		С	Connector (15pin)	[CN15] [CN14,14-1]
60	QCNW-7811BHZZ	AM		C	F-LED cable (18pin) IC (KD65003AP)	[IC5-7]
61	VHIKID65003AP	AE	-	В	IC (MC34063AM1)(VHIKA34063A-1)	[IC1]
	VH i MC3 4 0 6 3 AM 1 VSKTD 2 0 6 D 1 / - 1	AK	-	В	Transistor (KTD2060)	[Q19]
	VSKTD14151/-1	AN		В	Transistor (KTD1415)	[Q1]
65	VSKTD1414//-1	AL		В	Transistor (KTD1414)	[Q2] [F1]
	G QFS-C1035CCZZ	AE	-	B	Fuse (250V/1.6A) Buzzer	[BZ1]
67	RALMB6646BHZZ B PRDAF6666BHZZ	AQ		C	Heat sink	[HEAT SINK]
60	LX-BZ6644RCZZ	AA	 	C	Screw (3.5 × 8S)(LX-BZ6644BHZZ)	[HEAT SINK]
	XBPSD30P06000	AA		С	Screw (M3 × 6)(LX-BZ6654BHZZ)	[Q1]
7	VRS-RE3DA301J	AB	-	C	Resistor (2W 300Ω ±5%)	[R62] [RA2]
72	RMPTC8563QCJB	AC	_	B	Block resistor (56KΩ × 8 1/8W ±5%) Transistor (KSB601)	[Q18]
73	3 VSKSB601-//-1 1 QCNCM7057RCZZ	AN	-	C	Connector (3pin)(QCNCM7057BHZZ)	[CN11,16]
	VHI4AC16///-1	AK		В	IC (4AC16)	[IC9,10,11]
76	RCRSP6676RCZZ	AG		В	Crystal (32.768KHz)	[X1] [X2]
77	RCRM-7001BHZZ	AH	_	В	Crystal (4.19MHz) IC (MC74HC373)(VHIG74HC373-1)	[IC3]
	VHIMC74HC373N	AK	-	В	IC (MC74HC373)(VHIG74HC373-1) IC (LH52B256N9)(VHIG76C256F70)	[IC4]
	O VH i L H 5 2 B 2 5 6 N 9 O R C i L C 6 6 4 7 B H Z Z	AK		C	Соі! (220µ H)	[L1]
	VHID78045F013	AZ	N	В	IC (D78045F013)	[IC2]
82	QCNCW7200BH2H	AL		С	Connector (28pin)	[CN12]
	RMPTC8123QCJB	AB		В	Block resistor (12KΩ × 8 1/8W ±5%)	[RA1] [G5-G7-G1]
	4 QCNW-7812BHZZ	AE	-	C	GND wire	[G11-G12-G13]
	OCNW-7813BHZZ OCNW-7814BHZZ	AE		c	GND wire	[G2-G4-G6]
8	QCNCM6865RCOE	AB		С	Connector (5pin)	[CN9]
	B QCNW-7805BHZZ	AF		С	GND wire (PWB-K/B-DR)	
	(Unit)	5111	A.	-	Main DMR unit	
90	1 CPWBF7503BH02	BW	N_	E	Main PWB unit	
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	1	1				

7 Main PWB unit[ER-A330]

NO.	Main PWB unit[ER		NEW.	PART		
-	PARTS CODE	RANK	MARK	RANK		N .
2	VHDDSS133HV-1 VHD1N4002G/-1	AA		В	Diode (DSS133HV)	[D3,7~21,24
3	VHDPS102R//-1	AD		B	Diode (1N4002G)	[D6,28,29
4	VRD-RC2EY100J	AA	ļ	C	Diode (PS102R) Resistor (1/4W 10Ω ±5%)	[D4
. 5	VRD-RC2EY102G	AA		C	Resistor (1/4W 10Ω ±5%)	
6	VRD-RC2EY102J	AA	· · · ·	č	Resistor (1/4W 1.0KΩ ±5%)	[R8
7	VRD-RC2EY104J	AA		Č	Resistor (1/4W 100KΩ ±5%)	[R53,58,59,76,77,89,133
8	VRD-RC2EY105J	AA		C	Resistor (1/4W 1.0MΩ ±5%)	[Re
9	VRD-RC2EY300J	AA		С	Resistor (1/4W 30Ω ±5%)	[R93,101 [R30~37
10	VRD-RC2EY123J	AA		С	Resistor (1/4W 12KΩ ±5%)	[R1,39,121-130,87,88,131,132,134
	VRD-RC2EY153J	AA		C	Resistor (1/4W 15KΩ ±5%)	[R54,55
12	VRD-RC2EY221J	AA		С	Resistor (1/4W 220Ω ±5%)	[R9,111~120
131	VRD-RC2EY222J	AA		C	Resistor (1/4W 2.2KΩ ±5%)	[R11,13,15,17,19,21,23,25,27,29,38
14	VRD-RC2EY223J VRD-RC2EY272J	AA		С	Resistor (1/4W 22KΩ ±5%)	[R68,71,80
	VRD-RC2EY334J	AA		C	Resistor (1/4W 2.7KΩ ±5%)	[R4,79,81,82,84
17	VRD-RC2EY362G	AA		C	Resistor (1/4W 330KΩ ±5%).	[R50,51
18	VRD-RC2EY392J	AA		C	Resistor (1/4W 3.6ΚΩ ±2%) Resistor (1/4W 3.9ΚΩ ±5%)	[R7
. 19	VRD-RC2EY471J	AA		C	Resistor (1/4W 470Ω ±5%)	[R2
20	VRD-RC2EY472J	AA			Resistor (1/4W 4.7KΩ ±5%)	[R78
21	VRD-RC2EY563J	AA		Č	Resistor (1/4W 56KΩ ±5%)	[R57,92
22	VHEMTZ15A//-1	AB		В	Zener diode (MTZ15A)	[R3,40,52,102
23	VHEMTZ20D//-1	AA		В	Zener diode (MTZ20D)	[ZD2
- 24	VHERD6, 2EB2-1	AB		В	Zener diode (MTZ6.2B)(VHEMTZ6.2B/-1)	[ZD1
	VRD-RC2EY000J	AA		С	Resistor (1/4W 0Ω ±5%)	[ZD5
26	QFSHD2109AFZZ	AC		С	Fuse holder	[S-RAM [F1
27	VCQYNA1HM333K	AA		С	Capacitor (50WV 0.033μ F)	[C1]
28	VCEAGA1HW335M	AB		C	Capacitor (50WV 3.3μ F)	IC5
29	VCEAGA1CW337M VCKYPU1HB221K	AB		C	Capacitor (16WV 330μ F)	[C9,10]
31	RC-Z1N104RCZZ	AB		C	Capacitor (50WV 220PF)	[C7,32]
	VCEAGA1CW106M	AA		C	Capacitor (12WV 0.1μ F)(RC-Z1N104BHZZ)	[C12,23,26]
	VCCCPU1HH330J	AB		c	Capacitor (16WV 10µF)	[C13,27,29,39]
34	VCCCPU1HH220J	AA		C	Capacitor (50WV 33pF) Capacitor (50WV 22PF)	[C14]
35	VCEAGA1CW226M	AB		C	Capacitor (16WV 22µF)	[C16]
36	VCKYPU1HB102K	AA		C	Capacitor (50WV 0.001μ F)	[C18]
37	VCKYPU1HB331K	AA		C	Capacitor (50WV 330pF)	[C31,24]
38	VSDSC001-//-1	AA		В	Transistor (2SC945)(VS2SC3198-/-1)	[C25,28]
39	VS2SB926-S/TC	AD		В	Transistor (2SB926-S)	[Q3 <u>-</u> 13,16] [Q18,19,20,34-40]
40	VS2SB926-S/TC	AD		В	Transistor (KTA1271)(VS2SA1271-/-1)	[Q31,32,33]
47 1	RC-KZ1054CCZZ RC-EZ106ARC1A	AB		C	Capacitor (50WV 0.10µ F)	[C6,11,34,35,37]
42 1	VCEAGU1HW105M	AD		C	Capacitor (10WV 10µF)	[C19]
44	VCKYPU1HB332K	AA	-	C	Capacitor (50WV 1.0μF)	[C30]
45 \	VHD1D4B42//-1	AD		В	Capacitor (50WV 3300pF)	[C36]
46 \	VCEAGU1HW478M	AL	_	C	Diode (1D4B42)(VHDD1102/BH-1) Capacitor (50WV 4700μ F)	[BD1]
47 \	VCEAGU1HW337M	AC			Capacitor (50WV 330µ F)	[C2]
48 \	VCEAGU1CW108M	AD		Č	Capacitor (16WV 1000µF)	[C4]
	VHPHDSP5621-1	AM		В	LED (HDSP-5621 2SEG green)	[C8]
	VS2SC3784-/-1	AD		В	Transistor (2SC3784)	[FND1~5] [Q14,21]
51 C	QCNCM1101CCZZ	AB		C	Connector (2pin)(QCNCM1101BHZZ)	[CN1]
52 (0	CNCW7081BHZZ	AB		_C	Connector (2P)(5267-02A)(Blue)	[CN2]
53 0	OCNCW6882BH1A	AG		С	Connector (11pin)(52011-1110)	[CN7]
54 C	QCNCW7118BH0H QCNCW7118BH0;	AG			Connector (8pin)(5229-08CPB)	[CN5]
	CNCW7201BH1E	BH AK		C	Connector (9pin)(5229-09CPB)	[CN8]
57 C	CNW-7811BHZZ	AM	_	C	Connector (52806-1510)(15pin)	[CN15]
58 V	/HIKID65003AP	AE	-	В	F-LED cable (18pin) C (KD65003AP)	[CN14,14-1]
59 V	/HIMC34063AM1	AG			C (MC34063AM1)(VHIKA34063A-1)	[IC5-9]
60 V	/SKTD14151/-1	AN			Transistor (KTD1415)	[IC1]
	/SKTD1414//-1	AL			Transistor (KTD1414)	[Q1]
	/H D 7 8 0 4 5 F 0 1 5	AZ	N		C (D78045F015)	[Q2]
	FS-C1035CCZZ	AE			Fuse (250V/1.6A)	[IC2]
64 R	RALMB6646BHZZ	AQ			Buzzer	[F1]
65 P	RDAF6666BHZZ	AN		CI	leat sink	[BZ1] [HEAT SINK]
	X-BZ6644RCZZ	AA		C	Screw (3.5 X 8S)(LX-BZ6644BHZZ)	[HEAT SINK]
	(BPSD30P06000	AA		C 8	Screw (M3 × 6)	[Q1]
60 D	RS-RE3DA221J	AB			Resistor (2W 220Ω ±5%)	[R83,85]
70 C	MPTC8563QCJB CNCM7057RCZZ	AC			Block resistor (56KΩ × 8)	[RA2]
	SKSB601-//-1	AB			Connector (3pin)(QCNCM7057BHZZ)	[CN11,16]
	CRSP6676RCZZ	AN	-		ransistor (B601)	[Q17]
73 D	CRM-7001BHZZ	AG			Crystal (32.768KHz)	[X1]
74 1/	H i M C 7 4 H C 3 7 3 N	AH AK			Crystal (4.19MHz)	[X2]
75 V	HILH52B256N9	AW			C (MC74HC373N)(VHIG74HC373-1)	[IC3]
76 0	CNCW7200BH3A	AA	-	C C	G-RAM (LH52B256N9)(VHIG76C256F70)	[IC4]
77 R	CILC6647RCZZ	AE	-	c	Connector (35233-3120)(31pin) Coil (220µ F)(RCILC6647BHZZ)	[CN12]
	MPTC8123QCJB	AB			llock resistor (12KΩ × 8)	[L1]
	0.1111					[RA1]
79 Q	CNW-7805BHZZ	AF		G III	IND wire (PWB-K/R-DR)	
79 Q	CNW-7805BHZZ	AE		C	ND wire (PWB-K/B-DR) ND wire	[G4] [G1-G11]

7	Main	PWR.	unit[ER-	A330
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NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
81	QCNCM6865BH0E	AC		С	Connector (5pin) [CN9]
	(Unit)				ITQ.TSI
	CPWBF7505BH02	BW	N	E	Main PWB unit [TQ,TS] Main PWB unit [KA,KB]
301	CPWBF7505BH03	BV	N_	E	Main PVVB Unit
		<u> </u>			
		-			
-					

8 Pop-up PWB unit

NO.	PARTS CODE	PRICE	PART RANK	DESCRIPTION
1	VRD-RC2EY270J	AA	 С	Resistor (1/4W 27Ω ±5%) [R10,12,14,16,18,20,22,24]
2	QCNCW7202BH1E VHPHDSP5621-1	AK	B B	Connector (52807-1510) [CN1] LED (HDSD5621)(2seg) [FND1-4]
	(Unit)	BC	E	Pop-up PWB unit
901	CPWBF7504BH01	ВС		, op dp ,
		-	 	

9 Articles for consumption

NO.	PARTS CODE	PRICE	PART RANK	DESCRIPTION	A310	A330
-	DPAPR1006CSZZ	AR	\$	Roll paper (5roll/1pack)	0	0
2	NROLR6652RCZZ	AZ	 S'	Ink roller (Blister pack)		0
	NROLR6638RCZZ	AY AK	 5	Ink roller (purple) Ink (5cc)	0	0
4_	UINK-1001CCZZ	AN	 <u> </u>			
-						

10 Service route options

NO. PARTS CODE PRIOR NEW MARK RANK	1-213) O	0 0 0 0 0
2 L K G i M 7 1 2 6 R C Z Z	0 0 01~104) 01~213) 0 01~303)	0 0 0
2 L K G I M 7 1 2 6 R C Z Z AL S Mode key gnp cover (OF key only) 3 G C O V H 7 1 2 6 B H Z Z BE D Drip-proof keyboard cover 4 D K I T - 8 6 6 6 B H Z Z BL N S Shield plate kit (include No.10 5 D K I T - 8 6 7 0 B H Z Z BT N S One hole cashier key kit (include No.20 6 D K I T - 8 6 7 0 B H Z Z AP N S Fixing kit (include No.30 7 G C O V H 7 1 2 7 B H Z Z BA D Mode switch cover 101 L C H S M 6 7 0 5 B H Z Z BG C Main chassis	0 01~104) 01~213) O 01~303)	0 0
3 GC O V H 7 1 2 6 B H Z Z BE D Drip-proof keyboard cover 4 D K i T − 8 6 6 6 B H Z Z BL N S Shield plate kit (include No.10 5 D K i T − 8 6 7 0 B H Z Z BT N S One hole cashier key kit (include No.20 6 D K i T − 8 6 7 0 B H Z Z AP N S Fixing kit (include No.30 7 GC O V H 7 1 2 7 B H Z Z BA D Mode switch cover 101 L C H S M 6 7 0 5 B H Z Z BG C Main chassis	01~104) 01~213) O 01~303)	0
4 DK i T - 8 6 6 6 B H Z Z BL N S Shield plate kit (include No.20 5 DK i T - 8 6 6 9 B H Z Z BT N S One hole cashier key kit (include No.20 6 DK i T - 8 6 7 0 B H Z Z AP N S Fixing klt (include No.30 7 GC ÖV H 7 1 2 7 B H Z Z BA D Mode switch cover 101 L C H S M 6 7 0 5 B H Z Z BG C Main chassis)1–213) O)1~303)	0
5 DK T - 8 6 6 9 BHZZ BT N S One hole cashier key kit	1~303)	0
6 DK i T = 8 6 7 0 BHZZ AP N S Fixing kit (Include National Part of Strain Stra		
7 GCÖVH7127BHZZ BA D Mode switch cover 101 L C H S M 6 7 0 5 B H Z Z BG C Main chassis		
101 L C H S M 6 7 0 5 B H Z Z BG C Main chassis		- 6
D Caution card		0
		0
103 PGUMM6696BHZZ AE C Gum leg		1 0
104 X U P S D 3 0 P 1 2 X 0 0 AA C Screw (3 X 12X)		0
201 L K G I W Z 3 Z 5 B H Z Z B G N B Cashier Key(body)	0	
202 QCNCW2423BH0E AE N C Cashier key connector (5p)	0	0
203 L K G i M 7 3 7 7 B H O 1 AV N B Cashier key No.1	0	0
203 L K G I M 7 3 7 7 B H 0 2 AV N B Cashier key No.2	0	0
204 L K G 1 W 7 5 7 7 B 11 0 E	0	0
205 L K G I M 7 3 7 7 B H 0 3 AV N B Cashier key No.3 206 L K G I M 7 3 7 7 B H 0 4 AV N B Cashier key No.4 207 L K G I M 7 3 7 7 B H 0 4 AV N B Cashier key No.4	7 0	0
206 L K G I M 7 3 7 7 B H 0 5 AV N B Cashier key No.5	0_	0
207 L KG I M 7 3 7 7 5 11 0 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3	0	0
208 L N G I W 7 3 7 7 D I 10 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	0
	0	0
I /II/ILANGI (00 ZDIIZZ	0	0
71118333020100000 7	0	0
212 X E B S D S O F O O O O O O O O O O O O O O O O O	0	0
213 GF TAF 6922 D1122 AG		0
301 LANGK 7 6 1 2 DI 1 2 2		0
302 LANGK 7 0 1 0 011 22 7		0
303 XHPSD30P08000 AA C Screw (3 X 8)		
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■ Index

Index					
PARTS CODE	NO.	PRICE		PART	
	140.	PANK	MARK	RANK	
[C]					
CCABM7249BH01 CCABM7250BH01	5- 1		N.	E	
CCASP6700BHZZ	5- 1 5- 501		N	E_	
CDRW-6681BHZZ	5- 504		N	E	
CDRW-6681BH02	5- 14		N N	E	
CFRM-6701BH01	5- 27		N	E	-
CKGIM7376BHZZ	4- 14		N	B	
CLABH7044BH03	3- 101		N	D	
CLABH7044BH04	3- 101	AX	N	D	
CLABH7044BH05	3- 101	AX	N.	D	
CPLTM6708BH01	5- 502	BF	N	Ē	
CPLU-6647BH01	5- 26	AY		В	-
CPWBF7503BH02	1- 20		N	Ē	
//	6- 901	BW	N	E	
CPWBF7504BH01	1- 9	BC		E	
	2- 7	BC		E	
	8- 901	BC		E	
CPWBF7505BH02	2- 18	BW	N	Ë	
//	7- 901	BW	N	E	
CPWBF7505BH03	2- 18	BV	N	E	
// /D1	7- 901	BV	N .	E	
[D]	40				
DK i T-8666BHZZ DK i T-8669BHZZ	10- 4	BL	N	S	
DK 11-8669BHZZ	10- 5	BT	N	S	
DPAPR1006CSZZ	9- 1	AP I	N	<u>S</u>	
DUNT-1306BHZZ	9- 1 5- 23	AR		S	
DUNTK5817BHSB	3- 501	BN	N	E	
DUNTK5817BHSC	3- 501	BN	_ N	E	
DUNTK5817BHSD	3- 501	BN	N		
DUNTM5818BHZZ	5- 503	BE	N	E E	
[G]	3 300		14		
GBOXD7141BHZZ	5- 901	BW	N	E	
GBOXD7143BHZZ	5- 901	BW	N	E	*
GCAB-7237BHZZ	1- 8	AM		D	
"	2- 6	AM		D	
GCABA7239BHZZ	2- 19	ВВ	N	D	
GCABB7236BHZA	2- 14	BC		D	
GCABB7236BHZZ	1- 16	BC		D	
GCASP6700BHZZ	5- 42	BB	N	D	
GCASP6701BHZZ	5- 7	AV	N	D -34	
GCOVA7123BHZZ	1- 1.	AY		D	
GCOVA7128BHZZ	2- 1	AY		D	
GCOVH7124BHZZ	1- 5	AF		D	
0000011740500777	2- 4	AF		D	
GCOVH7125BHZZ	1- 21	AP		_D	
GCÖVH7126BHZZ	10- 3	BE		D	
GCOVH7127BHZZ GFTAF6921BHZZ	10- 7	BA		D /	
"	1- 17	AG		D	
GFTAF6922BHZZ	2- 15 2- 46	AG	NI -	D :	
#	10- 213	AG AG	N N	D	
(H)	10- 213	AG	N	D	
HDECP6847BHSB	1- 14	AM	N	D	
HDECP6847BHSC	2- 12	AM	N	D.	
HPNLC6835BHZZ	5- 15	AS	N	D	
[J]					
JKNBZ6896BHZZ	3- 8	AG		C	
JKNBZ6897BHZZ	3- 7	AG		c	
JKNBZ6898BHZZ	3- 10	AH		C	
JKNBZ6899BHZZ	3- 9	AH		č	
JKNBZ6902BHZZ	3- 21	AF		C	
JKNBZ6903BHZZ	3- 22	AP	N	C	
JKNBZ6905BHZZ	3- 11	AF		C	
JKNBZ6908BHZZ	3- 11	AK		С	
JKNBZ6911BHZZ	3- 11	AK		С	
JKNBZ6912BHZZ	3- 11	AK		С	
JKNBZ6913BHZZ	3- 11	AK		С	
JKNBZ6914BHZZ	3- 11	AK		C	
JKNBZ6915BHZZ	3- 11	AK		С	
JKNBZ6916BHZZ	3- 11	AK		C	
JKNBZ6917BHZZ	3- 11	AK		С	
JKNBZ6918BHZZ	3- 11	AK		C	
JKNBZ6919BHZZ	3- 11	AK		C	
JKNBZ6920BHZZ	3- 11	AK		С	
KI-ÖB6781RCZZ	1- 04	DW	AT .		
Ki-OB6781HCZZ Ki-OB6784RCZZ	1- 34 2- 31	BW	N I	투	
000/07/1022	- 01	BZ	N	c	

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PARTS CODE	NO.	PRICE	NEW MARK		
[L]				11	
LANGK7612BHZZ	5- 44	AF	N	С	
//	10- 301	AF	N	С	
LANGK7613BHZZ	.5- 45	AN	N	С	
1 44100 - 0 0 1 - 11	10- 302	AN	N	С	
LANGQ7604BHZZ	3- 1	AG		С	
LANGT7481BHZZ	2- 53	AG		С	
LANGT7602BHZZ	2- 48	AM	N	D	
I DND IOOCOTO	10- 210	AM	N	С	
LBNDJ2003SCZZ	1- 47	AA		С	1.1
//	2- 32	AA		C	
LCHSM6705BHZZ	10- 101	BG		C ·	
LFRM-6700BHZZ	3- 14	BB		D	
LHLDW6841BHZZ	2- 26	AD	N	C	
LHLDZ6836BHZZ	3- 19	. AE		C	
LHLDZ6837BHZZ	3- 20	AE		С	
LHLDZ6840BHZZ	1- 31	AL		C	
LKG1M7110BHZZ	3- 6	AE		B	
// // // // // // // // // // // // //	4- 11	AE		B	
LKGiM7111BHZZ	3- 6	AE		B	
	4- 11	AE		В	
LKGIM7113BHZZ	10- 1	AF		S	
LKGIM7126RCZZ	10- 2	AL		S	
LKG M7331BHZZ	4- 12	AE		В	
LKGiM7377BH01	5- 21	AE		В	
LKG1M7377BH01	10- 203	AV	N	B	1
LKG1M7377BH03	10- 204	AV	N	<u>B</u>	
LKG1M7377BH03	10- 205	AV	_ N_	B	
LKG1M7377BH04	10- 206	AV	<u>N</u> +	В	<u> </u>
LKG1M7377BH06	10- 207	AV	N	В	<u> </u>
LKGIW0001BHZZ	10- 208	AV	N	В	
LKG:W7330BHZZ	3- 2	AS		В	,
LKG:W7375BHZZ	5- 20 2- 49	AY	61	_B_	
#	10- 201	BG	N	В	
LPIN-6650BHZZ	5- 10	BG	N	_B	
LPLTM6706BHZZ	3- 17	AA	N	_ <u>C</u>	
LPLTM6708BHZZ	5- 36	BB	N.	<u>C</u>	
LPLTM6709BHZZ	5- 2	AS	N	D	
LPLTP6710BHZZ	5- 9	AK	N		
LPLTP6711BHZZ	5- 43	AP	N	<u>c</u>	
LPLTP6712BHZZ	5- 6	AK	N	C	
LPLTP6713BHZZ	1- 2	AL		C	
LX-BZ6644RCZZ	6- 69	AA		C	
11	7- 66	AA		C	
X-BZ6755BHZZ	2- 35	AB		Ċ	
X-BZ6775BHZZ	5- 29	AA		C	
X-BZ6778BHZZ	2- 52	AA		Č	
ii ii	5- 33	AA		C	
X-8Z6781BHZZ	1- 23	AB		С	
//	2- 36	AB		C	_
X-BZ6788BHZZ	1- 3	AD		C	
//	2- 3	AD		č	
X-HZ0056BHZZ	1- 39	AA		č	
[M]					
CAMM6633BHZA	5- 18	AE		C	
LEVF6695BHZZ	5- 5	AK		С	
ISPRB6751BHZZ	5- 38	AF	N	C	
ISPRC6712BHZZ	5- 31	AF		C	
ISPRK6718BHZZ	5- 19	AF		С	
ISPRT6713BHZZ	5- 30	AD		С	
ISPRT6714BHZZ	5- 4	AE		С	
IN1		4.0		C	
[N] ROLP6650BHZZ	5- 13	AP		-	
[N] ROLP6650BHZZ "	5- 39	AP		С	
[N] ROLP6650BHZZ // ROLP6651BHZZ	5- 39 1- 6	AP AD		C	
[N] ROLP6650BHZZ # ROLP6651BHZZ ROLR6638RCZZ	5- 39 1- 6 9- 3	AP AD AY		C C S	
[N] ROLP6650BHZZ " ROLP6651BHZZ ROLR6638RCZZ ROLR6652RCZZ	5- 39 1- 6	AP AD		C	
[N] ROLP6650BHZZ ROLP6651BHZZ ROLR6638RCZZ ROLR6652RCZZ IP]	5- 39 1- 6 9- 3 9- 2	AP AD AY AZ		C C S S	
IN] ROLP6650BHZZ ROLP6651BHZZ ROLR6638RCZZ ROLR6652RCZZ IPI CUSG1220BHZZ	5- 39 1- 6 9- 3 9- 2	AP AD AY AZ		C S S	
INI ROLP6650BHZZ ROLP6651BHZZ ROLR6651BCZZ ROLR6652RCZZ IPI CUSG1220BHZZ CUSG7024BHZZ	5- 39 1- 6 9- 3 9- 2 2- 29 1- 32	AP AD AY AZ AE AE		C C S S	
INI ROLP6650BHZZ ROLP6651BHZZ ROLR6651BCZZ ROLR6652RCZZ IPI CUSG1220BHZZ CUSG7024BHZZ CUT-6654BHZZ	5- 39 1- 6 9- 3 9- 2 2- 29 1- 32 1- 4	AP AD AY AZ AE AE AE		C S S C C C C	
IN] RÖLP6650BHZZ RÖLP6651BHZZ RÖLR6638RCZZ RÖLR6652RCZZ IP] CUSG1220BHZZ CUSG7024BHZZ CUT-6654BHZZ	5- 39 1- 6 9- 3 9- 2 2- 29 1- 32 1- 4 2- 2	AP AD AY AZ AE AE AE AE AE		C S S C C	
INI RÖLP6650BHZZ RÖLP6651BHZZ RÖLR6638RCZZ RÖLR6652RCZZ IPI CUSG1220BHZZ CUSG7024BHZZ CUT-6654BHZZ // FILW6961BHZZ	5- 39 1- 6 9- 3 9- 2 2- 29 1- 32 1- 4 2- 2 1- 11	AP AD AY AZ AE AE AE AE AE AP		C S S C C C C	
[N] RÖLP6650BHZZ RÖLP6651BHZZ RÖLR6638RCZZ RÖLR6652RCZZ [P] CUSG1220BHZZ CUSG7024BHZZ CUT-6654BHZZ # FILW6961BHZZ #	5- 39 1- 6 9- 3 9- 2 2- 29 1- 32 1- 4 2- 2 1- 11 2- 9	AP AD AY AZ AE AE AE AP AP		C S S C C C C C C	
[N] ROLP6650BHZZ ROLP6651BHZZ ROLR6638RCZZ ROLR6638RCZZ IPI CUSG1220BHZZ CUSG7024BHZZ CUT-6654BHZZ # FILW6961BHZZ # FILW6962BHZZ	5- 39 1- 6 9- 3 9- 2 2- 29 1- 32 1- 4 2- 2 1- 11 2- 9 1- 7	AP AD AY AZ AE AE AE AP AP		C S S C C C C C D	
[N] ROLP6650BHZZ ROLP6651BHZZ ROLR6638RCZZ ROLR6638RCZZ IPI CUSG1220BHZZ CUSG7024BHZZ CUT-6654BHZZ # FILW6961BHZZ # FILW6962BHZZ	5- 39 1- 6 9- 3 9- 2 2- 29 1- 32 1- 4 2- 2 1- 11 2- 9 1- 7 2- 5	AP AD AY AZ AE AE AE AE AP AP AP AU AU		C C C C D D D D D D	
[N] ROLP6650BHZZ ROLP6651BHZZ ROLR6638RCZZ ROLR6638RCZZ IPI CUSG1220BHZZ CUSG7024BHZZ CUT-6654BHZZ # FILW6961BHZZ # FILW6962BHZZ	5- 39 1- 6 9- 3 9- 2 2- 29 1- 32 1- 4 2- 2 1- 11 2- 9 1- 7	AP AD AY AZ AE AE AE AP AP		C S S C C C D D D D	

		PRIOF	NICTA!	PART	
PARTS CODE	NO.	PRICE RANK	NEW MARK	RANK	
PGUMM6726BHZZ	1- 35	AE	N	C	
PGUMM6727BHZZ	5- 34	AE	N	C	
PHOG-1060CCZZ	3- 4	AA		C	
PRDAF6666BHZZ	6- 68	AN		č	
PDNOTCC97PU77	7- 65 5- 22	AA		c	
PRNGT6637BHZZ PSHEP6681BHZZ	4- 1	AF		D	
PSHEP6844BHZZ	3- 16	BC		С	
PSKR-6628BHZZ	5- 8	AG		С	
PSPAG6718BHZZ	2- 54	AB		C	
PSTM-6658RC01	2- 34	AR		C	
PSTM-6662RC01	2- 34	AR		C	
PSTM-6805RCZZ	1- 37	AT	N	C	
PSTM-6810RCZZ	1- 37	AT	IN		
QACCE3120QCN5	1- 25	AL		В	
UACCEST ZUGONS	2 23	AL		В	
QACCL 1 0 1 8 CCN 1	1- 25	AV		В	
"	2- 23	AV		В	
QCNCM1101CCZZ	6- 54	AB		С	
"	7- 51	AB		C	
QCNCM6865BH0E	7- 81	AC		C	
QCNCM6865RC0E	6- 87	AB		č	
QCNCM7057RCZZ	6- 74 7- 70	AB		C	
QCNCW2423BH0E	2- 50	AE	N	C	
// // // // // // // // // // // // //	10- 202	_	N	С	
QCNCW6882BH1A	6- 56	AG		C	
"	7- 53	AG		C	
QCNCW7081BHZZ	6- 55	AB	-	C	
"	7- 52	AB		C	
QCNCW7118BH0H	6- 57 7- 54	AG	 	C	
QCNCW7118BH0i	7- 54 6- 58			č	
QCNCW7 18BHO1	7- 55	BH		c	
QCNCW7200BH2H	6- 82			C	
QCNCW7200BH3A	7- 76	AA		С	
QCNCW7201BH1E	6- 59		<u> </u>	C	
"	7- 56			C	
QCNCW7202BH1E	8- 2	AK	-	C B	
QCNW-1035CCZZ	1- 25 2- 23		-	В	
QCNW-7451BHZZ	1- 46	AG		C	
UCNW-74516HZZ	2- 43			C	
QCNW-7804BHZZ	3- 3			С	
QCNW-7805BHZZ	2- 17			С	
//	6- 88	_		C _	
"	7- 79		+	C	
QCNW-7806BHZZ	1- 44 2- 41		-	C	
QCNW-7807BHZZ	2- 41 1- 36	_	+	T c	
QCNW-7808BHZZ QCNW-7809BHZZ	2- 33		N	C	
QCNW-7809BHZZ	1- 19	-		С	
QCNW-7811BHZZ	6- 60			С	
"	7- 57			C	
QCNW-7812BHZZ	6- 84		+ -	C	
QCNW-7813BHZZ	6- 85		-	C	
QCNW-7814BHZZ	6- 86 1- 10	_	1	C	
QCNW-7815BHZZ	2- 8			C	
QCNW-7816BHZZ	1- 45			С	
OCNW-7817BHZZ	2- 42			С	
QCNW-7818BHZZ	2- 51		N	С	
"	10- 209		N	C	-
QCNW-7823BHZZ	1- 30		+	 _ c_	
QCNW-7824BHZZ	7- 80		+	C A	
QFS-C1035CCZZ	6- 66 7- 63			A	+
QFSHD2109AFZZ	7- 63 6- 27			A	1
UFSHUZTUBAFZZ	7- 26			C	
QPLGA0006QCZZ	1- 25			С	
//	2- 23			С	
QSW-M6906BHZZ	5- 25	AL	N	В	
QTANZ1362CCZZ	1- 42			<u>C</u>	-
	2- 39		-	C	-
QTANZ1363CCZZ	1- 41		-	C	-
// OTANZ6641BHZZ	2- 37			1 c	+
QTANZ6641BHZZ_	2- 40	-		l č	
QTANZ6657BHZZ	1- 40			č	
WINIACOOO / DIJEC				,	

DARTE CODE	NC		PRICE	NEW	PART	
PARTS CODE			RANK	MARK	RANK	
QTANZ6657BHZZ [R]	2-	38	AU		<u></u>	
RALMB6646BHZZ	6-	67	AQ		В	
"	7	64	AQ		В	
RC-EZ106ARC1A	6- 7-	44	AD_		C	
RC-KZ1054CCZZ	6-	43	AB		C	
# # # # # # # # # # # # # # # # # # #	7-	41	AB		C	
RC-Z1N104RCZZ	7-	31	ÁΑ		С	
RCILC6647BHZZ	6-	80	AK		C	
RCILC6647RCZZ RCORF6698BHZZ	7- 2-	77 27	AE AR	-	C	
RCRM-7001BHZZ	6-	77	AH		В	
//	7-	73	AH		В	
RCRSP6676RCZZ	6-	76	AG		В	
//	7- 6-	72 83	AG AB		В	
RMPTC8123QCJB	7-	78	AB.		В	
RMPTC8563QCJB	6-	72	AC		В	
//	7-	69	AC		В	
RTRNP6890BHZZ	1-	27	BC	N	В	
RTRNP6891BHZZ	1 2-	27	BC_ BD	N	<u>В</u> В	
RTRNP9517BHZZ RTRNP9518BHZZ	2-	25	BD	N	В	-
(S)						
SPAKA8366BHZA	4-	3	AU	N	D	
SPAKA8367BHZZ	4-	2	AT	3.1	D	
SPAKA8375BHZZ	<u>5-</u> 4-	41	AD_ BB	N	D	
SPAKC8369BHSA SPAKC8369BHZZ	4-	4	BB	N	D	
SSAKH3012CCZZ	4-	10	AA		D	
SSAKH3015CCZZ	4-	6	AA		D	
SSAKH4231CCZZ	4-	5	AA		D	
[T]	-	10	AC	-	D	
TCADH6788BHZA TCADZ2001BHZA	4-	13	AM		D	
TCAUS6677BHZZ	1-	15	AD		D	
"	2-	13	AD		D	
TCAUZ6697BHZZ	4-	9	AC		D	
TGANE1001BHZB	4-	15	AF	N.	D	
TINSE7364BHZZ	4-	$\frac{7}{7}$	AZ	N	D D	
TINSE7368BHZZ TINSF7365BHZZ	4-	7	AZ	N	D	
TINSF7369BHZZ	4-	7	AZ	N	D	
TINSG7366BHZZ	4-	7	AZ	N	D	
TiNSG7370BHZZ	4-	7	AZ	N	D	
TINSS7367BHZZ	4-	7	AZ	N N	D	
TINSS7371BHZZ TLABH7006BHZA		102	AD	- 15	D	
(U)			- 115			
UBNDA6629BHZZ	4-	101	AA		С	
UINK-1001CCZZ	4-	8	AK		S	
// TV/	9-	4	ĄK		S	
[V] VCCCPU1HH220J	6-	35	AA		С	
// // // // // // // // // // // // //	7-	34	AA		C	
VCCCPU1HH330J	6-	34	AB		С	
"	7-	33	AB		C C	
VCEAGA1CW106M	6- 7-		AA	 	C	
VCEAGA1CW226M	6-		AB		c	-
// // // // // // // // // // // // //	7-		AB		С	
VCEAGA1CW337M	6-	31	AB		С	
11	7-		AB	-	C	
VCEAGA1HW106M	6-		AA	-	C	
VCEAGA1HW335M	6- 7-		AB	-	C	
VCEAGU1CW108M	6-		AD		C	
//	7-		AD		С	
VCEAGU1HW105M	7-		AA		C	
VCEAGU1HW337M	6-	_	AC	_	C	
WOEACHA HWAZOM	7-		AC	 	C	
VCEAGU1HW478M	6- 7-		AL	-	C	
VCKYPU1HB102K	6-		AA		C	
// // // // // // // // // // // // //	7-		AA		С	
VCKYPU1HB103K	6-		AA		С	
VCKYPU1HB221K	6-	_	AB	-	<u> </u>	
WOKYPILA UPO O OY	7-		AB	-	C	
VCKYPU1HB222K	6-	46	AA			

Name	r					
VCKYPU1HB3331K	PARTS CODE	NO.				
" 7- 37 AA C VGKYPU1HB332K 6- 46 AA C VCQYNA1HM333K 6- 28 AA C VDDDSS133HV-1 6- 1 AA B VHDDSS133HV-1 6- 1 AA B " 7- 1 AA B VHDDS102R/-1 6- 3 AD B WHD104B42/-1 6- 48 AD B WHD104B42/-1 6- 48 AD B WHD1N4002G/-1 6- 2 AA B WHEMT215A/-1 7- 22 AB B VHEMT215A/-1 7- 22 AB B VHEMT215B/-1 6- 23 AB B VHEMT24B2/-1 7- 23 AA B VHEMT24B2-1-1 6- 25 AB B VHEMT21B8/-1 6- 25 AB B VHEMT24B2B2-1 6- 25 AB B VHEMT24B2B2-1 6- 25 AB B VHID78045F013 6- B1	VCKYPU1HB331K	6- 3		MARIN		
	//					
VCQYNA1HM333K	VCKYPU1HB332K					
	VCOVNA 1 HM3 3 3 K			-		
VHDDSS133HV-1	//	_		-		
## 1	VHDDSS133HV-1			 		
		7-			_	
VHD1D4B42//-1			_			
WHDIN4002G/-1 6-2 2 AA B VHDIN4002G/-1 6-2 2 AA B VHEMTZJ7A/-1 7-2 2 AB B VHEMTZ15B//-1 7-22 AB B VHEMTZ18B//-1 6-23 AB B VHEMTZ18B//-1 6-23 AB B VHEMD24EB2/-1 6-26 AB B VHERD6.2EB2-1 6-25 AB B VHED78045F013 6-81 AZ N WHID78045F013 7-69 AZ N B WHID78045F015 7-62 AZ N B WHID78045F015 7-75 AB B B WHIMC34063AM1 6-61 AE B B WHIMC34063AM1 6-78 AK B B WHMC34063AM1 6-78 AK B B WHMC34063AM1 6-78 AK B B WHMC34063AM1 6-78 AK B B <		_				
VHDINA40026/-1				-		
VHEMTZ15A/-1	VHD1N4002G/-1		_			
VHEMTZ15A//-1			AA		В	
VHEMTZ18B/-1						
VHEMTZ20D//-1				-		
VHERD6.2EB2-1 6-26 AB B VHERD6.2EB2-1 6-25 AB B WHID78045F013 6-81 AZ N B VHID78045F015 7-62 AZ N B VHID78045F015 7-62 AZ N B VHIK1D65003AP 6-61 AE B WILL52B256N9 6-79 AW B WILL52B256N9 6-79 AW B WHIMC34063AM1 6-62 AG B WHIMC34063AM1 6-62 AG B WHIMC74HC373N 6-78 AK B VHIMC74HC373N 6-78 AK B VHPHDSP5621-1 6-52 AM B WHYHMC16//-1 6-75 AK B WHD-RC2EY000J 7-25 AA C WRD-RC2EY102G 6-5 AA C VRD-RC2EY102G 6-5 AA C VRD-RC2EY102G 6-6 AA C <						
		6- 26				
WHID78045F013					_	
VHID78045F015			_	N.		
VHIKID65003AP				_		
WHILH52B256N9 6-79 AW B WHILH52B256N9 6-79 AW B WHIMC34063AM1 6-62 AG B VHIMC74HC373N 6-78 AK B WHIMC74HC373N 6-78 AK B WHI4AC16//-1 6-75 AK B WHI4AC16//-1 6-75 AK B WHDDSF5621-1 6-52 AM B WHDDSF5621-1 6-52 AM B WHDDSF5621-1 6-52 AM B WHD-RC2EY100J 7-25 AA C WRD-RC2EY100J 6-4 AA C WRD-RC2EY102G 6-5 AA C WRD-RC2EY104J 6-6 AA C WRD-RC2EY104J 6-7 AA C WRD-RC2EY103J 6-8 AA C WRD-RC2EY123J 6-10 AA C WRD-RC2EY153J 6-10 AA C VRD-RC2EY153J 6-11					$\overline{}$	
WHIMC34063AM1 6-62 AG B WHIMC34063AM1 6-62 AG B W 7-59 AG B VHIMC74HC373N 6-78 AK B WHIMC416///-1 6-75 AK B VHPHDSP5621-1 6-52 AM B WPPHDSP5621-1 6-52 AM B WPPHDSP5621-1 6-52 AM B WPPHDSP5621-1 6-52 AM B WPD-RC2EY100J 7-49 AM B WRD-RC2EY100J 6-4 AA C VRD-RC2EY102G 6-5 AA C W 7-5 AA C WRD-RC2EY102J 6-6 AA C W 7-76 AA C VRD-RC2EY103J 6-7 AA C VRD-RC2EY103J 6-10 AA C VRD-RC2EY153J 6-11 AA C VRD-RC2EY183J 6-12 AA					В	
VHIMC34063AM1 6-62 AG B " 7-59 AG B " 7-74 AK B " 7-74 AK B VHIMC74HC373N 6-78 AK B " 7-74 AK B VHPDBP5621-1 6-52 AM B " 7-49 AM B " 7-49 AM B " 7-50 AA C VRD-RC2EY100J 6-4 AA C " 7-4 AA C " 7-4 AA C " 7-5 AA C " 7-6 AA C VRD-RC2EY104J 6-7 AA C " 7-7 AA C VRD-RC2EY123J 6-10 AA C VRD-RC2EY163J 6-11 AA C VRD-RC2EY213J 6-13 AA						
WHIMC74HC373N 6-78 AK B WHIMC74HC373N 6-78 AK B W 7-74 AK B VHI4AC16///-1 6-75 AK B VHPHDSF5621-1 6-52 AM B W 7-49 AM B WAD-RC2EY000J 7-25 AA C VRD-RC2EY102G 6-4 AA C WD-RC2EY102J 6-6 AA C WD-RC2EY102J 6-6 AA C WD-RC2EY104J 6-7 AA C WD-RC2EY105J 6-8 AA C WD-RC2EY123J 6-10 AA C WD-RC2EY153J 6-11 AA C VRD-RC2EY153J 6-11 AA C VRD-RC2EY22JJ 6-13 AA C VRD-RC2EY22JJ 6-13 AA C VRD-RC2EY22JJ 6-13 AA C VRD-RC2EY33J 6-15 AA			_			
VHIMC74HC373N			_			
VH14AC16//-1 6- 75 AK B VHPHDSP5621-1 6- 52 AM B " 8- 3 AM B " 8- 3 AM B VRD-RC2EY100J 6- 4 AA C VRD-RC2EY102G 6- 5 AA C " 7- 4 AA C VRD-RC2EY102J 6- 6 AA C " 7- 5 AA C VRD-RC2EY104J 6- 7 AA C " 7- 6 AA C VRD-RC2EY105J 6- 8 AA C " 7- 7 AA C VRD-RC2EY123J 6- 10 AA C VRD-RC2EY123J 6- 11 AA C VRD-RC2EY183J 6- 11 AA C VRD-RC2EY183J 6- 11 AA C VRD-RC2EY22J 6- 13 AA C VRD-RC2EY22J 6- 13 AA C VRD-RC2EY22J 6- 14 AA C VRD-RC2EY22J 6- 13 AA C VRD-RC2EY3OJ 6- 15 AA C VRD-RC2EY332J						
VHPHDSP5621-1 6-52 AM B " 7-49 AM B " 8-3 AM B VRD-RC2EY100J 7-25 AA C VRD-RC2EY102G 6-4 AA C " 7-5 AA C " 7-6 AA C " 7-7 AA C VRD-RC2EY104J 6-7 AA C " 7-7 AA C VRD-RC2EY105J 6-8 AA C " 7-8 AA C VRD-RC2EY105J 6-10 AA C " 7-10 AA C VRD-RC2EY153J 6-11 AA C VRD-RC2EY183J 6-12 AA C VRD-RC2EY21J 6-13 AA C VRD-RC2EY22J 6-14 AA C VRD-RC2EY22J 6-14 AA C VRD-RC2EY3J						
## 7- 49 AM B ## 8- 3 AM B WRD-RC2EY000J 7- 25 AA C VRD-RC2EY100J 6- 4 AA C ## 7- 4 AA C WRD-RC2EY102G 6- 5 AA C ## 7- 5 AA C WRD-RC2EY102J 6- 6 AA C ## 7- 6 AA C WRD-RC2EY104J 6- 7 AA C WRD-RC2EY104J 6- 7 AA C WRD-RC2EY105J 6- 8 AA C ## 7- 70 AA C WRD-RC2EY123J 6- 10 AA C WRD-RC2EY153J 6- 11 AA C WRD-RC2EY183J 6- 11 AA C WRD-RC2EY183J 6- 12 AA C WRD-RC2EY22J 6- 13 AA C WRD-RC2EY22J 6- 13 AA C WRD-RC2EY22J 6- 14 AA C WRD-RC2EY22J 6- 15 AA C WRD-RC2EY22J 6- 15 AA C WRD-RC2EY22J 6- 16 AA C WRD-RC2EY22J 6- 15 AA C WRD-RC2EY22J 6- 16 AA C WRD-RC2EY27J 6- 16 AA C WRD-RC2EY27J 6- 16 AA C WRD-RC2EY27J 6- 16 AA C WRD-RC2EY332J 6- 17 AA C WRD-RC2EY332J 6- 18 AA C WRD-RC2EY332J 6- 17 AA C WRD-RC2EY332J 6- 18 AA C WRD-RC2EY332J 6- 17 AA C WRD-RC2EY332J 6- 18 AA C WRD-RC3EY332J 6- 18 AA C WRD-RC3EY332J 6- 18 AA C WRD-RC3EY332J 6- 18 AA C WRD-RC3EY3334J 6- 18 AA C WRD-						
"VRD-RC2EY000J 7- 25 AA C VRD-RC2EY100J 6- 4 AA C "" 7- 4 AA C VRD-RC2EY102G 6- 5 AA C VRD-RC2EY102J 6- 6 AA C "" 7- 6 AA C VRD-RC2EY104J 6- 7 AA C VRD-RC2EY105J 6- 8 AA C VRD-RC2EY123J 6- 10 AA C VRD-RC2EY153J 6- 11 AA C VRD-RC2EY183J 6- 11 AA C VRD-RC2EY183J 6- 12 AA C VRD-RC2EY213J 6- 13 AA C VRD-RC2EY183J 6- 12 AA C VRD-RC2EY213J 6- 13 AA C VRD-RC2EY223J 6- 15 AA C VRD-RC2EY223J 6- 15 AA C VRD-RC2EY23J 6- 16 AA C VRD-RC2EY330J 6- 19			-		_	
VRD-RC2EY100J 6- 4 AA C " 7- 4 AA C VRD-RC2EY102G 6- 5 AA C " 7- 5 AA C VRD-RC2EY102J 6- 6 AA C VRD-RC2EY104J 6- 7 AA C VRD-RC2EY105J 6- 8 AA C VRD-RC2EY123J 6- 10 AA C VRD-RC2EY123J 6- 10 AA C VRD-RC2EY153J 6- 11 AA C VRD-RC2EY183J 6- 11 AA C VRD-RC2EY183J 6- 12 AA C VRD-RC2EY183J 6- 13 AA C VRD-RC2EY22J 6- 14 AA C VRD-RC2EY22J 6- 14 AA C " 7- 12 AA C VRD-RC2EY22J 6- 14 AA C VRD-RC2EY22J 6- 15 AA C VRD-RC2EY27OJ 8- 1 AA C VRD-RC2EY33U 6- 15 AA C VRD-RC2EY27OJ 8- 1 AA C VRD-RC2EY27OJ 8- 1 AA C VRD-RC2EY33U 6- 15 AA C VRD-RC2EY33U 6- 16 AA C VRD-RC2EY33U 6- 17 AA C VRD-RC2EY33U 6- 18 AA C VRD-RC2EY39U 6- 20 AA C VRD-RC2EY39U 6- 20 AA C VRD-RC2EY39U 6- 21 AA C VRD-RC2EY47U 7- 19 AA C VRD-RC2EY47U 7- 19 AA C VRD-RC2EY47U 7- 18 AA C VRD-RC2EY47U 7- 19 AA C VRD-RC2EY47U 7- 20 AA C VRD-RC2EY47U 7- 21 AA C VRD-RC2EY47U 7- 21 AA C VRD-RC2EY4001 6- 71 AB C VRD-RC2EY56U 7- 21 AA C VRD-RC2EY56U 7- 21 AA C VRD-RC2EY47U 7- 16 AU AA B VRD-RC2EY56U 7- 16 AU AA B VRD-R	"					
WRD-RC2EY102G 6-5 AA C WRD-RC2EY102J 6-6 AA C VRD-RC2EY104J 6-7 AA C VRD-RC2EY104J 6-7 AA C VRD-RC2EY105J 6-8 AA C VRD-RC2EY123J 6-10 AA C VRD-RC2EY153J 6-10 AA C VRD-RC2EY153J 6-11 AA C VRD-RC2EY183J 6-12 AA C VRD-RC2EY21J 6-13 AA C VRD-RC2EY22JJ 6-14 AA C VRD-RC2EY222J 6-14 AA C VRD-RC2EY222J 6-15 AA C VRD-RC2EY222J 6-15 AA C VRD-RC2EY272J 6-15 AA C VRD-RC2EY270J 8-1 AA C VRD-RC2EY330J 6-9 AA C VRD-RC2EY332J 6-16 AA C VRD-RC2EY362G 6-					С	
VRD-RC2EY102G						
WRD-RC2EY102J 6-6 AA C WRD-RC2EY104J 6-7 AA C VRD-RC2EY104J 6-7 AA C WRD-RC2EY105J 6-8 AA C WRD-RC2EY123J 6-10 AA C WRD-RC2EY153J 6-11 AA C WRD-RC2EY183J 6-11 AA C VRD-RC2EY183J 6-12 AA C VRD-RC2EY21J 6-13 AA C VRD-RC2EY22J 6-14 AA C VRD-RC2EY223J 6-15 AA C VRD-RC2EY223J 6-15 AA C VRD-RC2EY270J 8-1 AA C VRD-RC2EY270J 8-1 AA C VRD-RC2EY30J 6-9 AA C VRD-RC2EY332J 6-16 AA C VRD-RC2EY332J 6-16 AA C VRD-RC2EY382G 6-19 AA C VRD-RC2EY382G 6-19		-		-		
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PARTS CODE	NO.	PRICE	NEW	PART	
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XEBSD20P06000	5- 28	AA		C	
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XEBSD30P06000	3- 18	AA		С	•
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XJPSD30P12X00	1- 33	AB		C	
XJPSD30P16X00	1- 26	AB		C	
"	2- 24	AB		C	
XJSSD26P08000	2- 47	AA	-	C	
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XNESD30-24000	1- 22		-14	C	
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XNESD60-50000	5- 12	· AA		C	
	5- 40	AA		C	
XRESJ40-06000	5- 11	AA		C	
XRESJ50-06000	5- 17	AA		С	
XUBSD30P08000	5- 3	AA		С	
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ER-A330

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1	-	-	_	_	-		#	CH	Q
*	*	*	*	*	*	*	%	CR	\rightarrow
0	0	0	0	0	0	0	0	■	←
1	1	1	1	1	1	1	1	•	1
2	2	2	2	2	2	2	2	တ	2
3	3	3	3	3	3	3	3	NS	3
4	4	4	4	4	4	4	4	TX	4
5	5	5	5	5	5	5	5	VT	5
6	6	6	6	6	6	6	6	Θ	6
7	7	7	7	7	7	7	7	Х	6/3
8	8	8	8	8	8	8	8	EX	ST
9	9	9	9	9	9	9	9	RF	TŁ
0									
	1								
		2							
			3						
				4					
					5				
						6			
							7		
								EX	
									TL

7) Test No. 8: RAM test

Key operation

② Test content

The RAM of 256KByte (standard provision) is checked.

Read and write of each data are made to the addresses shown in the table below to compare the data. If there is no error, the machine returns to the key wait state. If an error occurs, intermittent buzzer sounds are made and the error print is made. Press any key to cancel the error.

				_												
V AD	0	1	2	3	4	5	6	7	8	9	Α	В	С	D	Ε	F
000X	0F	1E	2D	30	4B	5A	69	78	87	96	A5	В4	C3	D2	E1	F0
001X	F0	0F	1E	2D	3C	4B	5A	69	78	87	96	A5	B4	C3	D2	E1
002X	E1	F0	OF	1E	2D	3C	4B	5A	69	78	87	96	A5	B4	C3	D2
004X	D2	Εt	F0	0F	1E	2D	3C	4B	5A	69	78	87	96	A5	B4	C3
X800	C3	D2	E1	F0	0F	1E	2D	3C	4B	5A	69	78	87	96	A5	B4
010X	B4	C3	D2	E1	FO	0F	1E	2D	3C	4B	5A	69	78	87	96	A5
020X	A5	B4	C3	D2	E1	FO	0F	1E	2D	3C	4B	5A	69	78	87	96
040X	96	A5	В4	C3	D2	E1	F0	OF	1E	2D	3C	4B	5A	69	78	87
080X	87	96	A5	B4	C3	D2	E1	F0	OF	1E	2D	3C	4B	5A	69	78
100X	78	87	96	A5	B4	C3	D2	E1	F0	0F	1E	2D	3C	4B	5A	69
200X	69	78	87	96	A5	B4	C3	D2	E1	F0	0F	1E	2D	3C	4B	5A
400X	5A	69	78	87	96	A 5	B4	C3	D2	E1	F0	0F	1E	2D	3C	4B
800X	4B	5A	69	78	87	96	A5	B4	C3	D2	E1	F0	OF	1E	2D	3C

3 Check item

Check the end print.

Test end

remination print at normal end	1	UB
Termination print at error	(ER-A310)	06
	(ER-A330)	-06

8) Test No. 9: Battery voltage test

Key operation

② Details of test

By the above key operations, the battery voltage is checked with the A/D conversion circuit of CPU and the following display is made.

Voltage conversion value when the reference voltage Vref (+5V) is supposed to 256.

3 Check item

Display check item

(Example) If the battery voltage is +3 V, $256 \times 3/5 = 153$ is displayed.

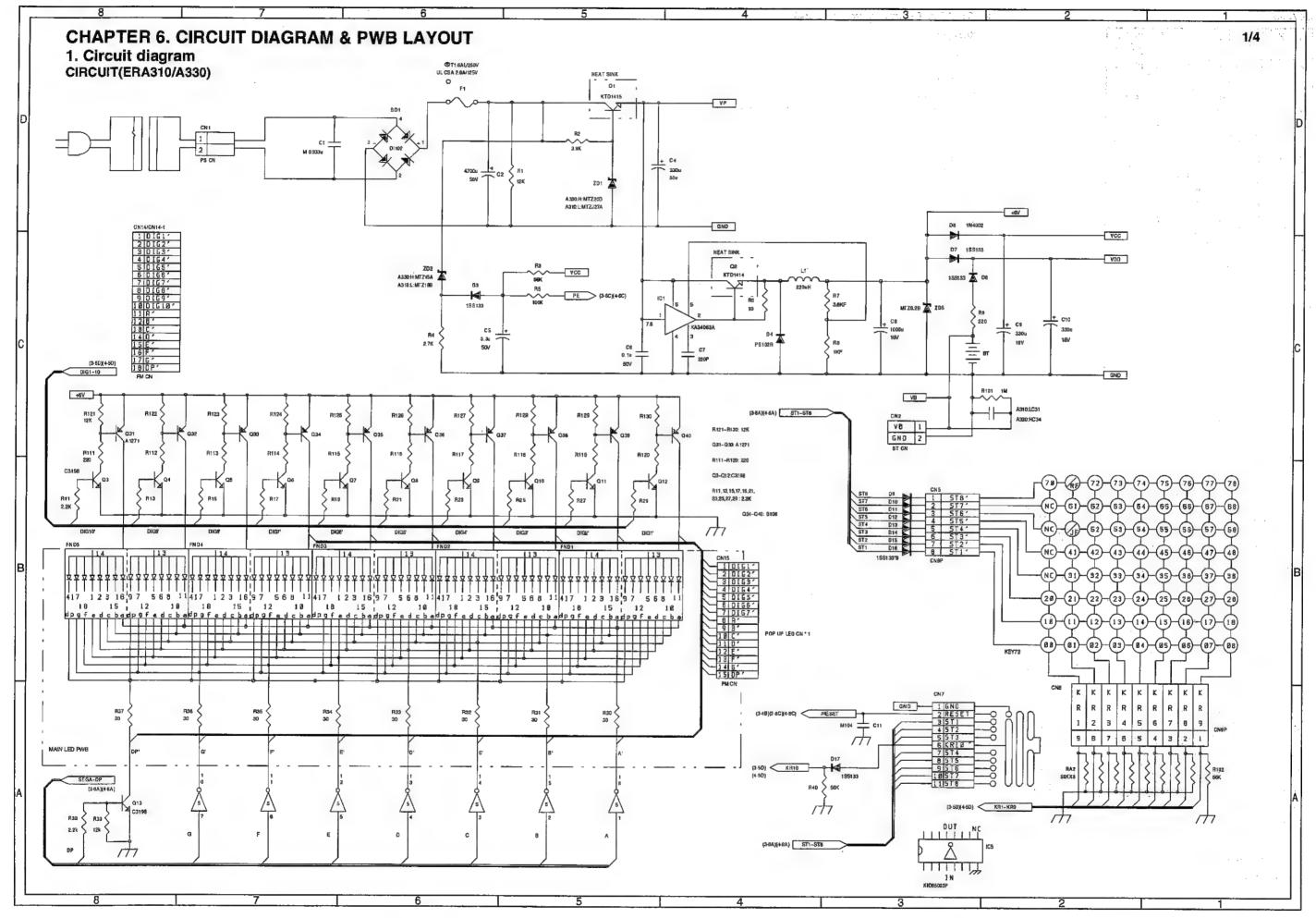
4 Test end

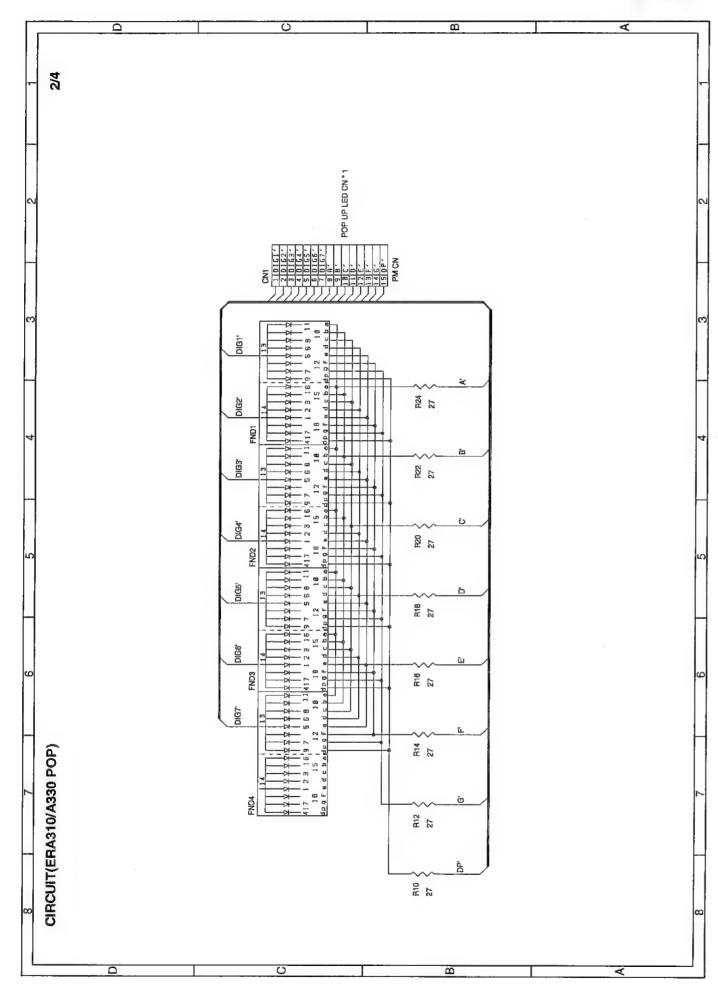
Pressing any key will make the following print and terminate the

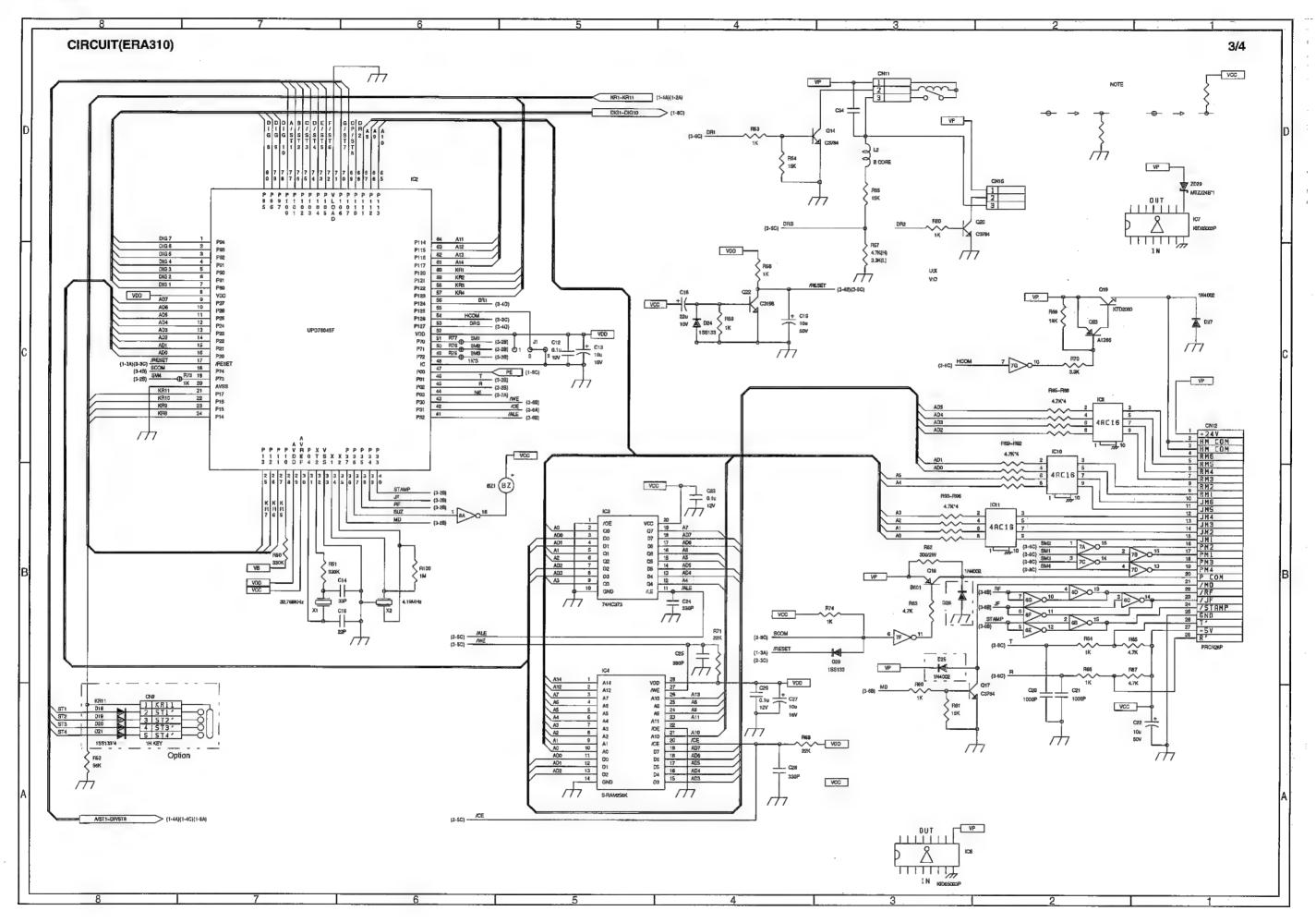
End print

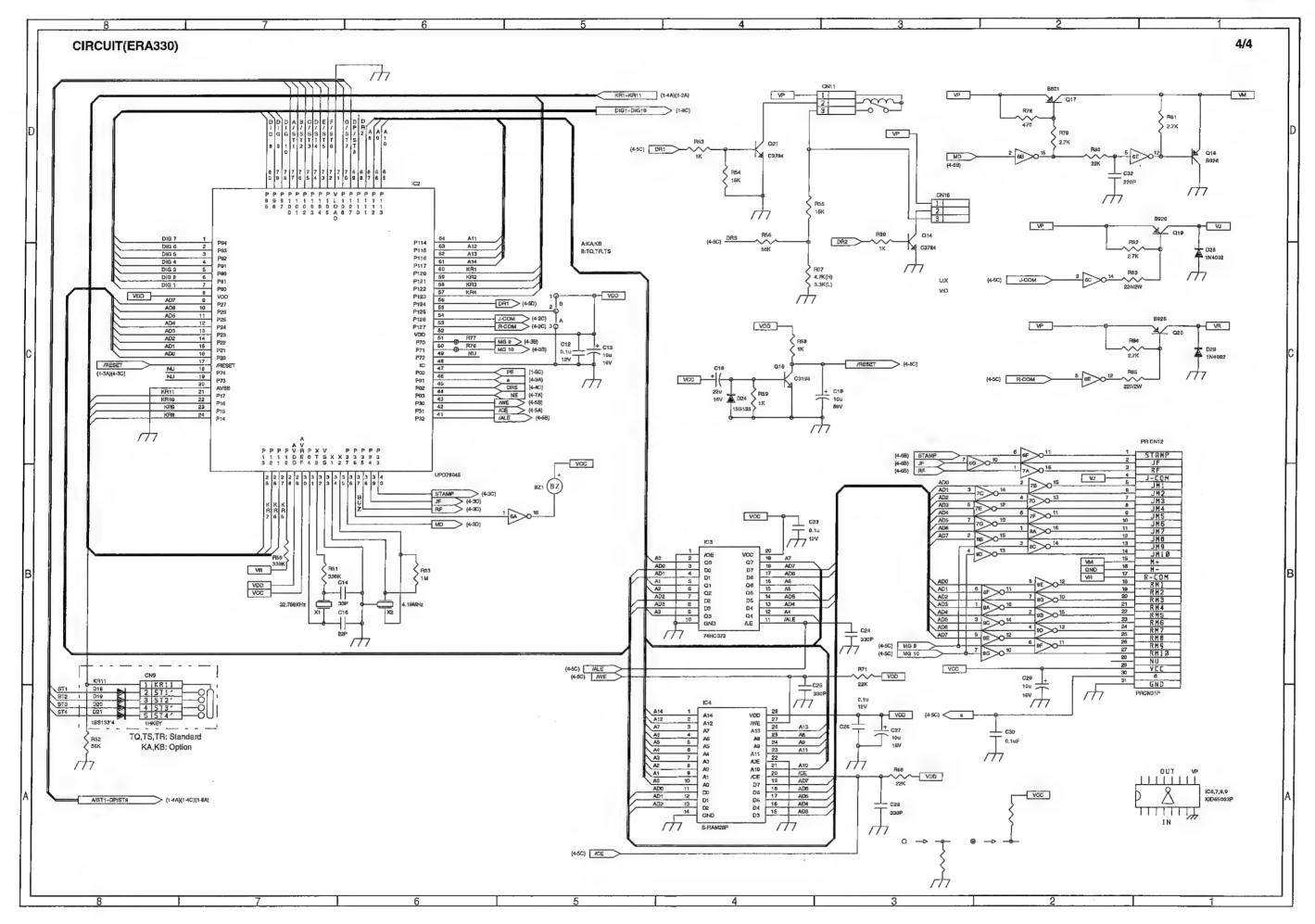
07

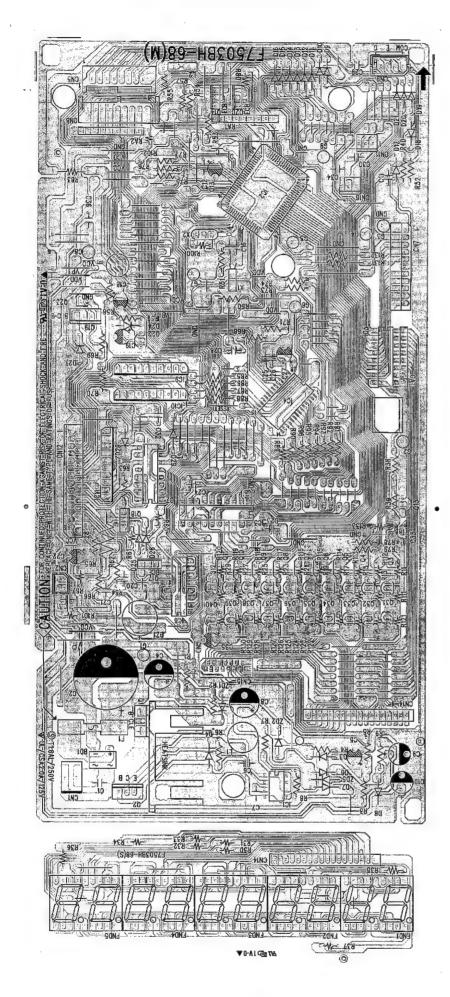
(Note) Specified value: 3.0 V



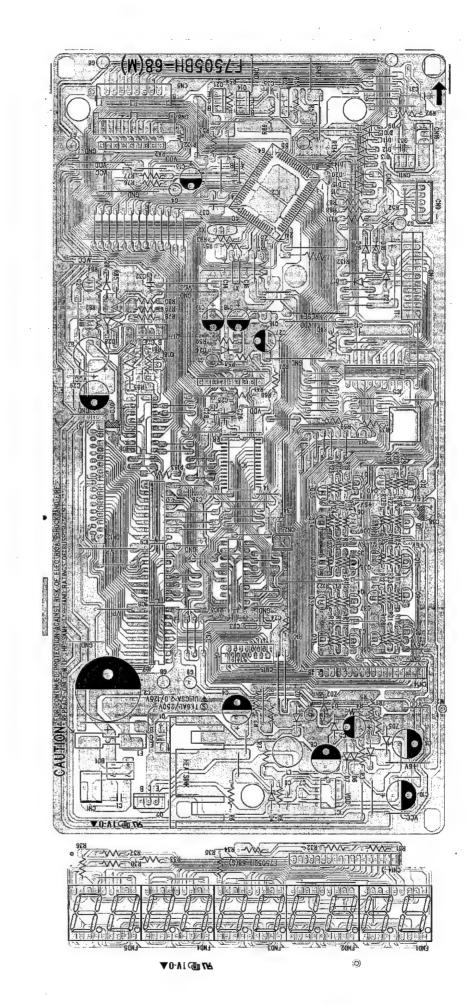


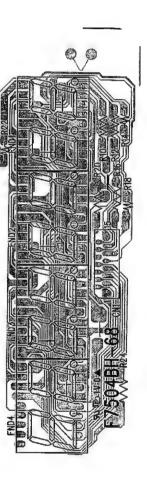






@ ER-A330 Main PWB layout



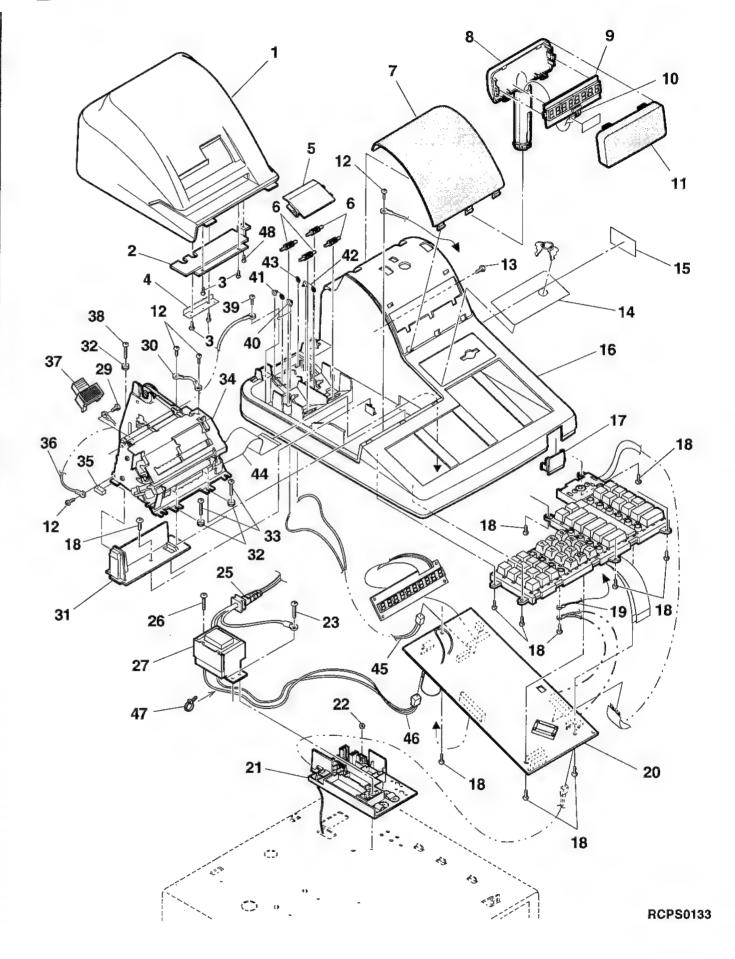


PARTS GUIDE

1 Exteriors[ER-A310]

	1	Exteriors[ER-A310]				
	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
ŀ		GCOVA7123BHZZ	AY	ļ. <u>.</u>	D	Printer cover L
		L P L T P 6 7 1 3 B H Z Z	AL		C	Printer guide plate Screw (for P/cutter,P/guide plate)
		PCUT-6654BHZZ	AE		C	Paper cutter
[GCOVH7124BHZZ	AF		D	Battery cover
		NROLP6651BHZZ	AD		С	Paper plate roller
ŀ		PFILW6962BHZZ GCAB-7237BHZZ	AU		D D	Display filter Pop up cabinet
ŀ		CPWBF7504BH01	BC		E	Pop-up PWB unit
į	10	QCNW-7815BHZZ	AR		С	P-Flat cable (15p)
[PFILW6961BHZZ	AP		D	Pop up filter
- 1		XHPSD30P06K00	AA		C	Screw (3 × 6K) Screw (3 × 8) (for top-trans cover)
ŀ		XBBSC30P08000 HDECP6847BHSB	AA AM	N	D	Screw (3 × 8) (for top-trans cover) Deco panel
ı		TCAUS6677BHZZ	AD	- ' '	D	Caution label
		GCABB7236BHZZ	BC		D	Top cabinet
		GFTAF6921BHZZ	AG		D	Clerk cover A
ŀ		XEBSD30P08000 QCNW-7810BHZZ	AA AG		C	Screw (M3 × 8) GND wire
ŀ		CPWBF7503BH02	BW	N	E	Main PWB unit
		GCOVH7125BHZZ	AP		D	Trans cover
		XNESD30-24000	AA		С	Nut (M3)
<u>,</u> }	23	LX-BZ6781BHZZ	AB		C B	Screw (for transformer) AC cord [KA]
$^{\wedge}$		QACCL1018CCN1 QCNW-1035CCZZ	AL		B	AC cord [KA] AC cord [KB]
AAA	25	QPLGA0006QCZZ	AQ		Č	Plug (3A 250V) [KB]
$\overline{\mathbb{A}}$		QACCE3120QCN5	AL		В	AC cord (250V 2.5A) [TQ,TS]
L.	26	XJPSD30P16X00	AB	NI.	С	Screw (3 × 16X) (for transformer)
\triangle	27	RTRNP6890BHZZ RTRNP6891BHZZ	BC BC	N N	B B	Power tmsformer (220V) [TQ,TS] Power tmsformer (240V) [KA,KB]
4	29	XHBSD40P06000	AA	-14	C	Screw (4 × 6)
ľ		QCNW-7823BHZZ	AE		С	Earth wire
		LHLDZ6840BHZZ	AL		С	Printer holder
ŀ		XJPSD30P12X00	AE AB		C	Printer cushion Screw (3 × 12X) (for printer)
ŀ		Ki-0B6781RCZZ	BW	N	E	Printer unit (CR-510)
Ĺ		PGUMM6726BHZZ	AE	N	С	Printer gum
	36	QCNW-7808BHZZ	AF		_ C_	P-GND wire
- 1	37	PSTM-6805RCZZ PSTM-6810RCZZ	AT	N	C	Stamp(YOUR RECEIPT THANK YOU) [KA,KB,TQ] Stamp(VIELEN DANK) [TS]
ŀ	38	XBPSD30P10KS0	AB	- 14	C	Screw (M3 × 10KS) (for printer)
ŀ	39	LX-HZ0056BHZZ	AA		С	Screw
		QTANZ6657BHZZ	AD		С	Battery terminal ⊖
-		QTANZ1363CCZZ QTANZ1362CCZZ	AA		C C	Battery terminal (+/-)B Battery terminal (+/-)A
H		QTANZ6641BHZZ	AC			Battery terminal ⊕
		QCNW-7806BHZZ	AN		С	PR flat cable (28p)
ŀ		QCNW-7816BHZZ	AR		C	B/T cable (2P)
ŀ		QCNW-7451BHZZ LBNDJ2003SCZZ	AG AA			PS cable (2pin) Cable band (80mm)
h	48	XEBSD20P06000	AA	1	č	Screw (2 × 6)
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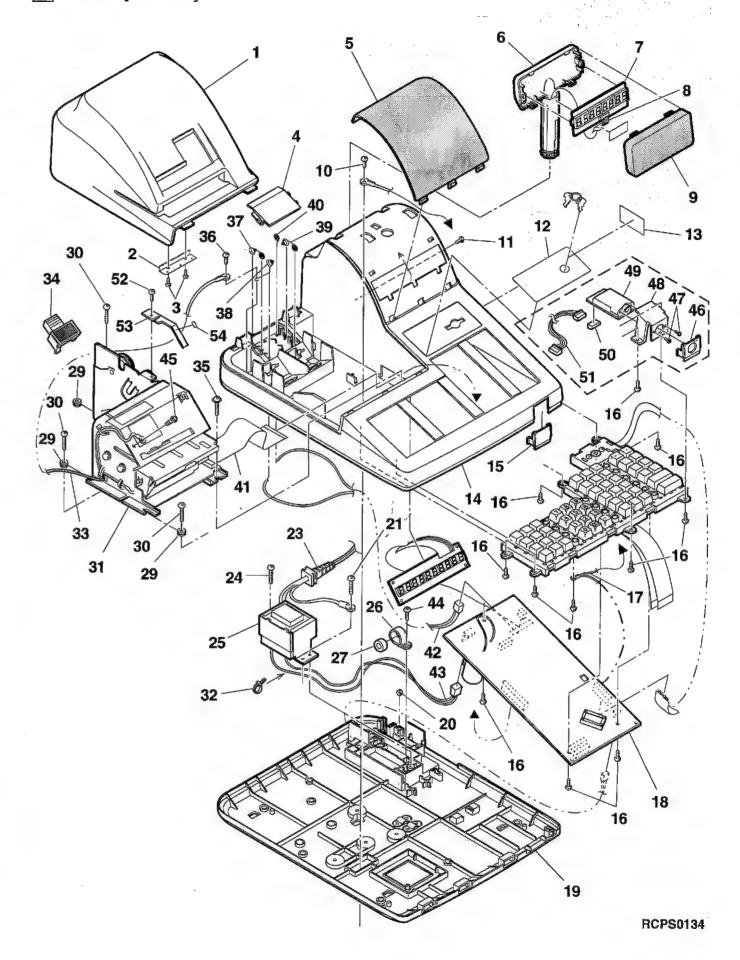
1 Exteriors[ER-A310]



2 Exteriors[ER-A330]	2
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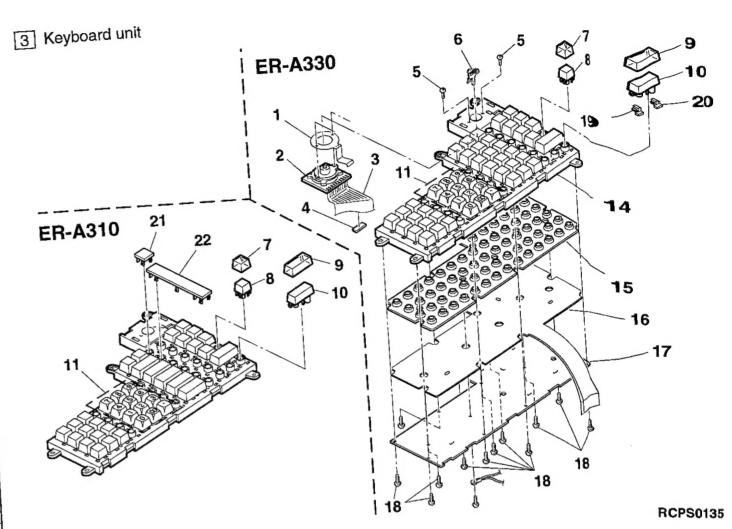
16 X E B S D 3 O P O 8 0 O O O AA C Screw (M3 × 8)	ļ	2	Exteriors[ER-A330]				
1 GC V A 7 1.2 8 H Z		NO.	PARTS CODE				DESCRIPTION
SILX-B26788BHZZ AD C Screw (for P/eutter, P/guide plate GROWN 17124BHZZ AF D Battery cover	-	1	GCOVA7128BHZZ				Printer cover H
GCOVH712 4 BH ZZ	-						
XUBSD30P10000	-	3					Screw (for P/cutter,P/guide plate
S P F L W 6 9 0 2 B H Z Z AU		4			· ·		
G G C A B − 7 2 3 7 B H Z Z		5			· ·	_	
T							
9 P.F. L.W.6.9 6.1 BH Z.Z. AP D Pop up lifetr 10 XM PS D.3.9 P D. 6.N 0 AA C Screw (3.X SE) (for top-trans cove 11 XB B.S.C.3.9 P D.9.0.0		7	CPWBF7504BH01				
10 XHPS D 3 0 P 0 6 K 0 0	Į	8	QCNW-7815BHZZ			. C	P-Flat cable (15p)
11 X B B S C 3 O P O 8 O O O	١	9	PFiLW6961BHZZ				
12 H D E C P 6 8 4 7 B H S C	ı	10	XHPSD30P06K00				
13 T C A U S 6 8 7 7 B H Z Z	١				N		10. 10 00.11
14 G.C.A.B.B.T.2.3.B.B.H.Z.Z.					. 14.		
15 GFTAF6921BHZZ	ı						
17 QCNW - 7 8 0 5 8 H 2 Z				AG			Clerk cover A [KA,KE
18	-	16	XEBSD30P08000				
	ŀ	17	QCNW-7805BHZZ				
19 GCABA7239BHZZ	-	18	CPWBF 7 5 0 5 B H 0 2				
20 XNESD3 0 - 2 4 0 0 0	ŀ	19					
A	ı				-		
A	ı				_		(40)
Color	Δ					В	
C	Δl	23	QCNW-1035CCZZ				AC cord
A	Ţ		QPLGA0006QCZZ				
A	⁴⊦	24	VIRSD20R16V00				
A	ا؞				N		
26 L H L D W 6 8 4 1 B H Z Z AR N C Holder (11N) 27 R C ÖR F 6 6 9 8 B H Z Z AR C C Core (for B/T wire 22P P C U S G 1 2 2 0 B H Z Z AE C Printer cushion 30 X B P S D 3 0 P 1 0 K S 0 AB C Screw (M3 × 10KS) (for printer 31 K I − Ō B 6 7 8 4 R C Z B Z N C Printer unit (UCR812A) 31 K I − Ō B 6 7 8 4 R C Z B Z N C Printer unit (UCR812A) 32 L B N D J 2 0 0 3 S C Z AA C C Cable band (80mm) 33 Q C N W − 7 8 0 9 B H Z Z AH N C P-GND wire 34 P S T M − 6 6 5 8 R C 0 1 AR C Stamp(YOUR RECEIPT THANK YOU) [KA,KB,TG] 35 L X − B Z 6 7 5 5 B H Z Z AB C Screw (15 M X M X M X M X M X M X M X M X M X M	<u>*</u>	25					
27 R C OR F 6 6 9 8 B H Z Z AR C C COre ((for B/T wire 29 P C U S G 1 2 2 0 B H Z Z AE C Printer cushion (for printer 30 X B P S D 3 0 P 1 0 K S 0 AB C Screw (M3 × 10KS) ((for printer 30 X B P S D 3 0 P 1 0 K S 0 AB C Screw (M3 × 10KS) ((for printer 30 X B P S D 3 0 P 1 0 K S 0 AB C Screw (M3 × 10KS) ((for printer 30 X C B A B C Screw (M3 × 10KS)) ((for printer 30 X C B B C D C Screw (M3 × 10KS)) ((for printer 30 X C B B C D C Screw (M3 × 10KS)) ((for printer 30 X C B B C D C Screw (M3 × 10KS)) ((for printer 30 X C B B C D C Screw (M3 × 10KS)) ((for printer 30 X C B B C D C Screw (M3 × 10KS)) ((for printer 30 X C B B C D C D C D C D C D C D C D C D C	-	26	LHLDW6841BHZZ				
29 P C U S G 1 2 2 0 B H Z Z AE C Printer cushion 30 X B P S D 3 0 P 1 0 K S 0 AB C Screw (M3 × 10KS) (for printer size in the control of t	1	27	RCORF6698BHZZ	AR			Core (for B/T wire
31 K I − O B 6 7 8 4 R C Z Z B Z N C Printer unit (UCR812A) 32 L B N D J 2 0 0 3 S C Z A A C C Cable band (80mm) 33 Q C N W − 7 8 0 9 B H Z Z A H N C P − S N D WITTER 34 P S T M − 6 6 5 8 R C 0 1 AR C Stamp(YOUR RECEIPT THANK YOU) [KA,KB,TG] 35 L X − B Z 6 7 5 5 B H Z Z AB C Screw (15 Screw) (for transformer) 36 L X − B Z 6 7 8 1 B H Z Z AB C Screw (15 Screw) (for transformer) 37 Q T A N Z 1 3 6 3 C C Z AA C Battery terminal (+/-)B 38 Q T A N Z 6 6 5 7 B H Z Z AD C Battery terminal (+/-)A 40 Q T A N Z 6 6 4 1 B H Z Z AC C Battery terminal (+/-)A 41 Q C N W − 7 8 0 7 B H Z Z AC C Battery terminal (+/-)B 42 Q C N W − 7 8 1 7 B H Z Z AF C B B T C	1	29	PCUSG1220BHZZ				Printer cushion
32 L B ND J 2 0 0 3 S C Z Z AA C C Cable band (80mm) 33 Q C NW − 7 8 0 9 B H Z Z AH N C P-GND wire 34 P S T M − 6 6 5 8 R C 0 1 AR C Stamp(YOUR RECEIPT THANK YOU) [KA,KB,TC] 35 L X − B Z 6 7 5 5 B H Z Z AB C Screw (for transformer) 36 L X − B Z 6 7 8 1 B H Z Z AB C Screw 37 Q T A N Z 1 3 6 3 C C Z Z AA C Battery terminal (+/-)B 38 Q T A N Z 6 6 5 7 B H Z Z AD C Battery terminal (+/-)A 39 Q T A N Z 1 3 6 2 C C Z Z AA C Battery terminal (+/-)A 40 Q T A N Z 6 6 4 1 B H Z Z AC C Battery terminal ⊕ 41 Q C N W − 7 8 0 7 B H Z Z AF C Battery terminal ⊕ 42 Q C N W − 7 8 1 7 B H Z Z AF C BT C C BT C C C C C C C C C C C C C C	ŀ	30	XBPSD30P10KS0				
33 QCNW-7809BHZZ AH N C P-GND wire 34 PSTM-6658RC01 AR C Stamp(YOUR RECEIPT THANK YOU) [KA,KB,TC] 35 LX-BZ6755BHZZ AB C Screw (for transformer) 36 LX-BZ6755BHZZ AB C Screw (for transformer) 37 QTANZ1363CCZZ AA C Battery terminal (+/-)B 38 QTANZ1363CCZZ AA C Battery terminal (+/-)B 39 QTANZ1362CCZZ AA C Battery terminal (+/-)A 40 QTANZ6641BHZZ AC C Battery terminal (+/-)A 40 QTANZ6641BHZZ AC C Battery terminal (+/-)A 41 QCNW-7807BHZZ AN C PR flat cable (31p) 42 QCNW-7817BHZZ AF C B/T cable (2p) 43 QCNW-7451BHZZ AG C PS cable (2pin) 45 00B1009882/// AC C C.C.S.Screw (M3 × 5.5) 46 GFTAF6922BHZZ AG N D Clerk cover B 47 XJSSD26P08000 AA C Screw (2.6 × 8) (Clerk sw+angle 4) LKG i W7 375BHZZ BG N D Clerk angle (2pin) 48 LANGT7602BHZZ AM N D Clerk angle (2pin) 49 LKG i W7 375BHZZ BG N B Clerk s/w key(body) → Juline (3pin) (Clerk sw+angle 5) QCNCW-2423BH0E AE N C Connector (5p) TQ,TS 50 QCNCW-781BHZZ AA C Screw (2.6 × 8) (Clerk s/w key(body) → Juline (3pin) (TQ,TS) (ŀ				N		
P S T M - 6 6 5 8 R C 0 1	ŀ				N		
P S T M - 6 6 6 2 R C 0 1	ł		PSTM-6658RC01		14		
35 L X - B Z 6 7 5 5 B H Z Z AB C Screw Screw	I	34					
36 L X − B Z 6 7 8 1 B H Z Z AB C Screw 37 Q T A N Z 1 3 6 3 C C Z Z AA C Battery terminal (+/-)B 38 Q T A N Z 1 3 6 2 C C Z Z AA C Battery terminal (-/-)A 40 Q T A N Z 6 6 5 7 B H Z Z AC C Battery terminal (-/-)A 40 Q T A N Z 6 6 4 1 B H Z Z AC C Battery terminal ⊕ 41 Q C N W − 7 8 0 7 B H Z Z AN C PR flat cable (31p) 42 Q C N W − 7 8 1 7 B H Z Z AF C B/- 43 Q C N W − 7 4 5 1 B H Z Z AG C PS cable (2pn) 45 Q D B 1 Q D 9 8 8 2 /// AC C C C.S. Screw (M3 × 5.5) 46 G F T A F 6 9 2 2 B H Z Z AG N D C H C C C.S. Screw (M3 × 5.5) 47 X J S S D 2 6 P Q 8 Q Q Q AA C Screw (2.6 × 8) (Clerk sw+angle 48 L A N G T 7 6 Q 2 B H Z Z AM N D C L C C C C C C C C C C C C C C C C C							Screw (for transformer
38 QTANZ6657BHZZ AD C Battery terminal ⊕ 39 QTANZ1362CCZZ AA C Battery terminal ⊕ 40 QTANZ6641BHZZ AC C Battery terminal ⊕ 41 QCNW-7807BHZZ AN C PR flat cable (31p) 42 QCNW-7817BHZZ AR C B/T cable (2P) 43 QCNW-7451BHZZ AG C PS cable (2pin) 45 00B1009882/// AC C C.C.S.Screw (M3 × 5.5) 46 GFTAF6922BHZZ AG N D Clerk cover B TQ,TS 47 XJSSD26P08000 AA C Screw (2.6 × 8) (Clerk sw+angle AB LANGT7602BHZZ AM N D Clerk angle C C CC.S.Screw (2.6 × 8) (Clerk sw+angle AB LANGT7602BHZZ AB N B Clerk s/w key(body) → AC LKG i W7375BHZZ BG N B Clerk s/w key(body) → AC LKG i W7375BHZZ BG N B Clerk s/w key(body) → AC LKG i W7375BHZZ AB N C COnnector (5p) TQ,TS 50 QCNCW2423BH0E AE N C COnnector (5p) TQ,TS 51 QCNW-781BHZZ AA C Screw C	ŀ						Screw
39 QTANZ1362CCZZ AA C Battery terminal (+/-)A 40 QTANZ6641BHZZ AC C Battery terminal ⊕ 41 QCNW-7807BHZZ AN C PR flat cable (31p) 42 QCNW-7817BHZZ AF C B/T cable (2P) 43 QCNW-7451BHZZ AF C B/T cable (2P) 45 00B1009882/// AC C C.C.S.Screw (M3 × 5.5) 46 GFTAF6922BHZZ AG N D Clerk cover B TQ,TS 47 XJSSD26P08000 AA C Screw (2.6 × 8) (Clerk sw+angle AB LANGT7602BHZZ AM N D Clerk angle AB LANGT7602BHZZ AM N D Clerk swy key(body) → AB LKG W 7 3 7 5 BHZZ AB N C COnnector (5p) 50 QCNCW2423BH0E AE N C Connector (5p) 51 QCNW-7818BHZZ AA C Screw C Screw (2.6 × 8) TQ,TS 52 LX-BZ6778BHZZ AA C Screw C	ŀ	37	QTANZ1363CCZZ				
40 QT AN Z 6 6 4 1 B H Z Z AC C Battery terminal ⊕ 41 QC N W − 7 8 0 7 B H Z Z AN C PR flat cable (31p) 42 QC N W − 7 8 1 7 B H Z Z AF C B/T cable (2P) 43 QC N W − 7 4 5 1 B H Z Z AG C PS cable (2P) 45 0 0 B 1 0 0 9 8 8 2 / / / AC C C.C.S.Screw (M3 × 5.5) 46 GF T A F 6 9 2 2 B H Z Z AG N D Clerk cover B TQ,TS 47 X J S S D 2 6 P 0 8 0 0 0 AA C Screw (2.6 × 8) (Clerk sw+angle 48 L A N G T 7 6 0 2 B H Z Z AM N D Clerk angle 49 L K G I W 7 3 7 5 B H Z Z BG N B Clerk s/w key(body) → MUTOLINIA TQ,TS 50 QC N C W 2 4 2 3 B H 0 E AE N C Connector (5p) TQ,TS 51 QC N W − 7 8 1 8 B H Z Z AN N C I hole cable TQ,TS 52 L X − B Z 6 7 7 8 B H Z Z AG C Printer angle	ŀ	30	OTAN71362CC77				
41 QCNW-7807BHZZ AN C PR flat cable (31p) 42 QCNW-7817BHZZ AF C B/T cable (2P) 43 QCNW-7451BHZZ AG C PS cable (2pn) 45 00B1009882// AC C C.C.S.Screw (M3 × 5.5) 46 GFTAF6922BHZZ AG N D Clerk cover B [TQ,TS] 47 XJSSD'26P08000 AA C Screw (2.6 × 8) (Clerk sw+angle) 48 LANGT7602BHZZ AM N D Clerk angle 49 LKG i W 7 3 7 5 BHZZ BG N B Clerk s/w key(body) (Clerk sw+angle) 50 QCNCW2423BH0E AE N C Connector (5p) 51 QCNW-7818BHZZ AN N C 1 hole cable 52 LX-BZ6778BHZZ AA C Screw 53 LANGT7481BHZZ AA C C Printer angle	ŀ	40	QTANZ6641BHZZ				
42 QCNW-7817BHZZ AF C B/T cable (2P) 43 QCNW-7451BHZZ AG C PS cable (2pin) 45 00B1009882/// AC C C.C.S.Screw (M3 × 5.5) 46 GFTAF6922BHZZ AG N D Clerk cover B 47 XJSSD'26P08000 AA C Screw (2.6 × 8) 48 LANGT7602BHZZ AM N D Clerk angle 49 LKGIW7375BHZZ BG N B Clerk s/w key(body) 50 QCNCW2423BH0E AE N C Connector (5p) 51 QCNW-7818BHZZ AN N C 1 hole cable 52 LX-BZ6778BHZZ AA C Screw 53 LANGT7481BHZZ AG C Printer angle	ı						
45 0 0 B 1 0 0 9 8 8 2 / / AC						С	B/T cable (2P)
46 GFTAF6922BHZZ AG N D Clerk cover B [TQ,TS] 47 X J S S D 2 6 P 0 8 0 0 0 AA C Screw (2.6 × 8) (Clerk sw+angle 48 L A N G T 7 6 0 2 B H Z Z AM N D Clerk angle 49 L K G I W 7 3 7 5 B H Z Z BG N B Clerk s/w key(body) C COnnector (5p) 50 Q C N C W 2 4 2 3 B H 0 E AE N C Connector (5p) [TQ,TS] 51 Q C N W - 7 8 1 8 B H Z Z AN N C Screw 52 L X - B Z 6 7 7 8 B H Z Z AA C Screw 53 L A N G T 7 4 8 1 B H Z Z AG C Printer angle	L					С	PS cable (2pin)
47 X J S S D 2 6 P 0 8 0 0 0	ŀ						
48 LANGT7602BHZZ AM N D Clerk angle 49 LKG W7375BHZZ BG N B Clerk s/w key(body) — Kell nex/schiols 2um Vaculturiles TQTS 50 QCNCW2423BH0E AE N C Connector (5p) TQTS 51 QCNW-7818BHZZ AN N C 1 hole cable TQTS 52 LX-BZ6778BHZZ AA C Screw 53 LANGT7481BHZZ AG C Printer angle	ŀ				N N		
49 L K G I W 7 3 7 5 B H Z Z B G N B Clerk s/w key(body) — (CU nex) Qum (Qu un) (TQ,TS) 50 Q C N C W 2 4 2 3 B H 0 E A E N C Connector (5p) TQ,TS 51 Q C N W - 7 8 1 8 B H Z Z AN N C 1 hole cable TQ,TS 52 L X - B Z 6 7 7 8 B H Z Z AA C Screw 53 L A N G T 7 4 8 1 B H Z Z AG C Printer angle	ŀ	48	1 ANGT 7 60 2 BH 7 7		N		- Communication
50 QCNCW2423BH0E AE N C Connector (5p) 51 QCNW-7818BHZZ AN N C 1 hole cable TQ,TS 52 LX-BZ6778BHZZ AA C Screw 53 LANGT7481BHZZ AG C Printer angle	ŀ	49	LKG W7375BHZZ				Clerk s/w key/body) - APH nos/s/14/2012 Sum (Aph) 4/2014 TOTS
51 QCNW-7818BHZZ AN N C 1 hole cable [TQ,TS] 52 LX-BZ6778BHZZ AA C Screw 53 LANGT7481BHZZ AG C Printer angle	ľ						
53 LANGT7481BHZZ AG C Printer angle					N		1 hole cable [TQ,TS
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SPECIAL CONTROL OF SPACE OF SP	ŀ						
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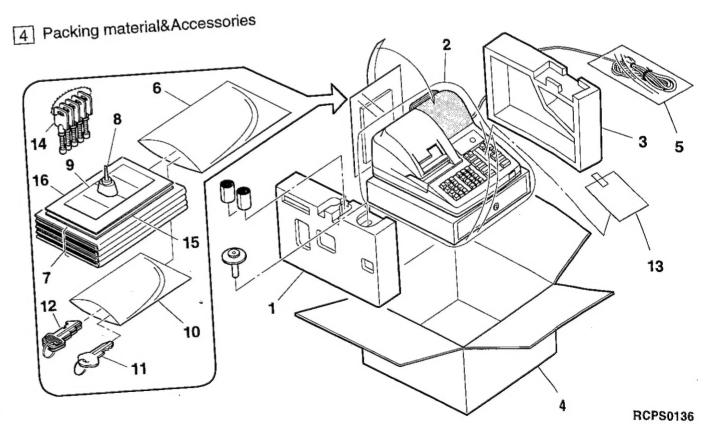
2 Exteriors[ER-A330]

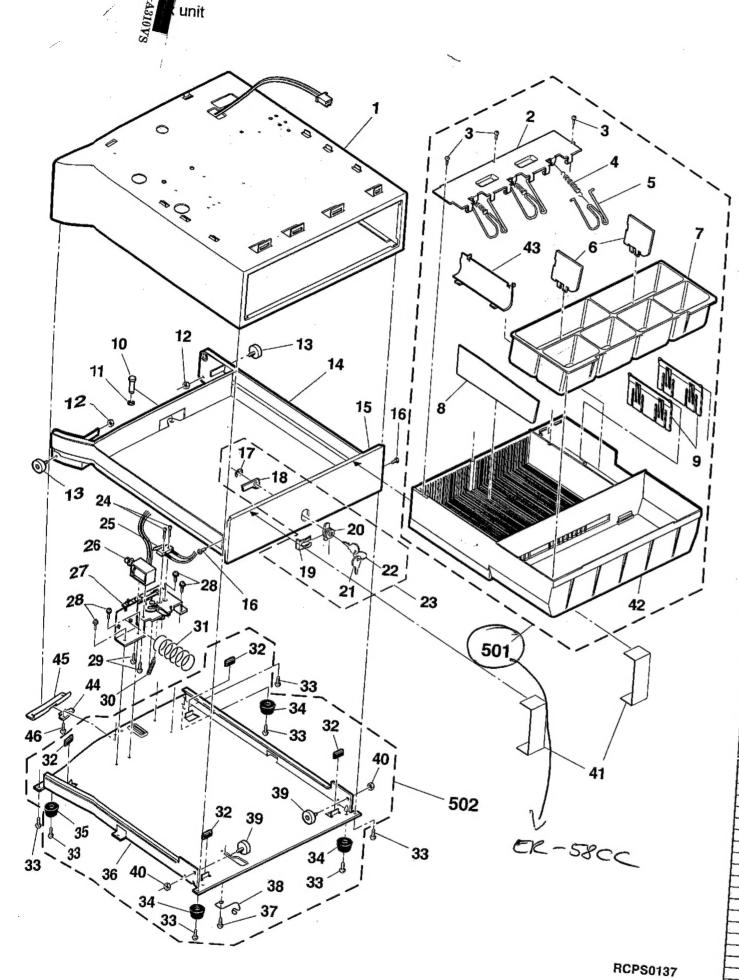


/board unit PARTS CODE ANGQ7604BHZZ (G; W0001BHZZ	PRICE RANK AG AS AL AA AA AE	NEW MARK	B C C	Mode sw earth angle Mode key (Body) Mode cable	00000	0 0 0
NGQ7604BHZZ GIW0001BHZZ CNW-7804BHZZ HOG-1060CCZZ JPSD30P08000 KGIM7110BHZZ KGIM7111BHZZ KNBZ6897BHZZ	RANK AG AS AL AA AA AE AE	MARK	RANK C B C	Mode key (Body) Mode cable	0	0
NGQ7604BHZZ GIW0001BHZZ CNW-7804BHZZ HOG-1060CCZZ JPSD30P08000 KGIM7110BHZZ KGIM7111BHZZ KNBZ6897BHZZ	AG AS AL AA AA AE AE		B C C	Mode key (Body) Mode cable	0	0
G W 0 0 0 1 BHZZ CNW - 7 8 0 4 BHZZ 1 0 G - 1 0 6 0 C C Z Z J P S D 3 0 P 0 8 0 0 0 K G I M 7 1 1 0 BHZZ K G I M 7 1 1 1 BHZZ K N B Z 6 8 9 7 BHZZ K N B Z 6 8 9 6 BHZZ	AS AL AA AA AE AE		C	Mode cable	_	
G W 0 0 0 1 BHZZ CNW - 7 8 0 4 BHZZ 1 0 G - 1 0 6 0 C C Z Z J P S D 3 0 P 0 8 0 0 0 K G I M 7 1 1 0 BHZZ K G I M 7 1 1 1 BHZZ K N B Z 6 8 9 7 BHZZ K N B Z 6 8 9 6 BHZZ	AL AA AE AE		C	Mode cable	0	0
CNW-7804BHZZ 10G-1060CCZZ JPSD30P08000 KG i M7110BHZZ KG i M7111BHZZ KNBZ6897BHZZ KNBZ6896BHZZ	AA AE AE		C			U
TOG-1060CCZZ JPSD30P08000 KG i M7110BHZZ KG i M7111BHZZ KNBZ6897BHZZ KNBZ6896BHZZ	AA AE AE			Cushion	0	0
JPSD30P08000 KGiM7110BHZZ KGiM7111BHZZ KNBZ6897BHZZ KNBZ6896BHZZ	AE AE		C	Screw (3 × 8)	0	0
KG i M 7 1 1 0 B H Z Z KG i M 7 1 1 1 B H Z Z KNB Z 6 8 9 7 B H Z Z KNB Z 6 8 9 6 B H Z Z	AE		B	Master key (MA)	0	0
KG i M7 1 1 1 BHZZ KNBZ 6 8 9 7 BHZZ KNBZ 6 8 9 6 BHZZ				Operator key (OP)	0	0
KNBZ6897BHZZ KNBZ6896BHZZ			В	Key cap (1 × 1)		0
KNB768966644	AG		C	Key top (1 × 1)	0_	10
KNB768966644	AG	1	C	Key top (1 × 2)	0	10
WALD TO BOOK HILL	AH	1	C	Key cap (1 × 2)	0_	1-8
KNRTPBBBBBBB	AH		C	Key top (1 × 2)	0	
UNB76898BM44_	AF	+	C	Key top (0)	0	0
KNBZ6905BMZZ			C	Key top (.)	0	0
V N B 7 6 9 0 8 B H 4 4	AK		C	Key top (1)	0	0
LNB78911BH44	AK	_+	c	Key top (2)	0	10
KNBZ6912BHZZ	AK		- c	Key top (3)	0	0
JKNBZ6913BHZZ	AK		1 c	Key top (4)	0	0
JKNBZ6914BHZZ	AK			Key top (5)	0	10
JKNB2691461122	AK		C	Key top (6)	1 8	10
JKNBZ6915BHZZ	AK		С	Key top top (7)		
JKNBZ6916BHZZ	AK		C	Key top (7)	0	
JKNBZ6917BHZZ			_ C	Key top (8)	10	
JKNBZ69188HZZ			c	Key top (9)	1	_+
IVNB769198744			- 0	Key top (00)		
ILNB7692UBH44				Key frame	0	
I EDM - 6700BHZZ				Key nubber	10	
DCHMM67250044				Key sheet unit		
DCUED6844DF44			1	Key plate	1	
L BL TM6 706BHZ	z <u>A</u>				1	5
CFL 1 W 0 7 0 0 0 0 0						
XEBSUS 01 6 BHZ			1	Llolder	- 1	
LHLDZOBSZBHZ			1	Dummy cover (1 × 1)		
LHLDZ6837DHZ	7 A	F				
JKNBZ6902BHZ	7 A	P		L. b. al unit	1	+-
JKNBZ6903BHZ	3 1	X	N L	D Key label unit		
CLABH7044BH0	4 1	X	N			0
CI ABHTO44BHU	*		N	The transfer of the state of th		
01 A D U 7 O 4 4 D D V	.,		N	E Keyboard unit [KA,Ki	3]	
DUNTKER1 / BHO	D		N	E Keyboard unit		
DUNTERS 1 / DITE				E Keyboard unit		
DUNTK5817BHS	3D	DIV				
D G IV 1					_	
		1_				
+						
	KNBZ6918BHZZ KNBZ6919BHZZ KNBZ6920BHZZ KNBZ6920BHZZ PGUMM6725BHZZ PSHEP6844BHZZ LPLTM6706BHZZ XEBSD30P0600 LHLDZ6836BHZ JKNBZ6902BHZ JKNBZ6902BHZ JKNBZ6903BHZ CLABH7044BH0 CLABH7044BH0 CLABH7044BH0	KNBZ6918BHZZ KNBZ6919BHZZ KNBZ6920BHZZ KNBZ6920BHZZ KNBZ6920BHZZ CHMM6725BHZZ CHMM6725BHZZ CHMM6725BHZZ CHMM6706BHZZ KEBSD30P06000 CHLDZ6837BHZZ KEBSD30P06000 CHLDZ6837BHZZ KHLDZ6837BHZZ KHLDZ6837BH	KNBZ6918BHZZ AK KNBZ6919BHZZ AK KNBZ6919BHZZ AK KNBZ6920BHZZ AK FRM-6700BHZZ BB PGUMM6725BHZZ AZ PSHEP6844BHZZ BC LPLTM6706BHZZ AW XEBSD30P06000 AA LHLDZ6836BHZZ AE LHLDZ6837BHZZ AE LHLDZ6837BHZZ AE JKNBZ6902BHZZ AF JKNBZ6903BHZZ AF JKNBZ6903BHZZ AP CLABH7044BH03 AX CLABH7044BH03 AX CLABH7044BH05 AX DUNTK5817BHSB BN	KNBZ6918BHZZ AK C KNBZ6919BHZZ AK C KNBZ6919BHZZ AK C KNBZ6920BHZZ AK C KNBZ6920BHZZ AB C FRM-6700BHZZ BB C FRM-6700BHZZ AZ C C FRM-6700BHZZ AZ C C C FRM-6700BHZZ AZ C C C C C C C C C C C C C C C C C C C	K N B Z 6 9 1 8 B H Z Z	K N B Z 6 9 1 8 B H Z Z

	Packing material&A	ccess	sories	S	DESCRIPTION	ER- A310	A330
J F	acking materials.	PRICE	NEW	PART	DESCRIPTION	0	0
	PARTS CODE	RANK	MARK			0	0
10.	PARISCODE	AF	10	D	Packing sheet	0	0
- 1	PSHEP6681BHZZ			D	Packing add L	0	
_	LODAVABSD/DDEE_	AT_	N -	D	Packing add R		0
	TODAY A 2 3 5 6 6 6 7 4 7	AU	N N	D	Packing case	0	0
	LOBAVORSHUDDEL _	BB	N	D	Packing case	0	0
4	CDAKC8369BDOT	BB	N	D	145-rd bag (140 X 500mm)	0	1
		AA		D	Vinyl had (200 X 300mm)	0	
5	S SSAKH3015CCZZ	AA		- D	Instruction book	0	
6	TINSE7364BHZZ	AZ	N		Instruction book	0	+
	TiNSE7364BHZZ	AZ	N	D	Instruction book		10
	TiNSF7365BHZZ	AZ	N_	D	Instruction book		10
	TINSG7366BHZZ	AZ	N	D	Instruction book		10
	TINSS7367BHZZ	AZ	N	D	Instruction book		1
	7 T I NSE 7 3 6 8 B H Z Z	AZ	N	D	Instruction book		0
	T: NSF7369BHZZ	AZ	N	D	Instruction book	0	0
	T: NCG73700044	AZ		D	Instruction book	0	0
	TINSS7371BHZZ			S	1nk	0	0
	0 11: NK - 10010044	AK		D	Battery caution label	10	0
	0 TCAIL7669/0044	AC		D	Vinyl bag (80 X 120/103)	0	70
	10 00 AV 43 (1) 2004 5	AA		B	Master key (MA)	10	10
	LKGIM7110BHZZ	AE		B	Operator key (OP)	10	
	11 LKGIM7111BHZZ						10
	LKG IM7 111 DHZZ	AF		В	To dies gord		_+
	12 LKG 1 M 7 3 3 1 BHZZ	AC	5] _	D			
	13 TCADH 6 7 8 8 B H Z A	BO	3 N		- to eard		
	44 OVO: M73/00046					0	
	1 T C A M E 1 0 11 1 10 11 4 12			C	installatio card AC cord band (4mm × 200mm)(Green)		
	10 TO A D 7 9 11 D 1 D 11 6 1	`			AC cord band (4min X Edding)	T	
-	101 UBNDA6629BHZZ	A				1	
—	101 02,12					1	
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							-
<u>_</u>				+_		-+-	
L_							







NO.	PARTS COL	\	PRICE	Limit					
	CAPMAG)E	RANK		PART				
1 c	CABM7250BF CABM7249BF	101	BF	N	E	TIEST DIDTION		ER-	E
	LIMEZOODI		BF	N	E	Cabinet unit Cabinet unit		A310	A3
_ 011	00211370000		AS	N	C	Bracket		0	
T 1VI	3PR 671 4 n	-	AA AE		C	Screw (3 × 8)			_ (
O IVI	- E V F 6 6 0 E D 11		AK		С	Bill spring		0	. (
-0151	L126719011	7 7	AK	N	C	Bill lever		0	_
8 P S	ASP6701BH KR-6628BH	ZZ	AV	N	C D	Coin separator		0	- 6
	LIPEZIODU		AG		C	Coin case Separator	-	o l	_ 0
	IN-66 FABIL		AK	N		Bill plate		0	
			AA	N	C	Lock pin		0	0
A	ESHED-COA		AA		C	E-type ring (M4)		0	0
			AP +			Nut (M6)		<u> </u>	0
	MW-6604 PIL-		BE	N		Roller		9	0
10 12 3	NLC6835BHZ SSD30P0600		AS	N		Case frame unit		5-1-	0
" A I	- 0 - 0 - 0 - 0		AA	N	C	Front cover Screw (3 × 6)		5	픙
IO LINI C Y	MMREZODUE		AA			type ring (5mm)	C	5	0
TO DIVID	* K K F 7 1 0 D		AE AF	-	<u> </u>	ock cam			0
	1 W 7 3 2 0 D 1 -		AY		CIL	ock key spring	- -9		0
- 1 L N C	1 M / 2 2 4 D		AE		<u> </u>	OCK key (hody)	10		0
	GT66378HZ	2 /	AA			ock key (1pc)	1 8		00
71206	511200000		1X		E	ey ring ock key unit	1 8		ö
			A			Tew (2 × 8)	0		ŏ
			Y		<u>B</u> Mi	cro switch	0		0
			Y		<u>B</u> _ So	lenoid (et micro sw)			0
	SD40P06K00 BZ6775BHZZ		A		Lo	ck frame unit	8		2
		A	A		- 00	rew (4 × 6K)	1 8	1 2	2_
		_				ew en lever spring (for solenoid)	10	-	_
		AI		C	Pus	th out spring (for solenoid)	0		_
1 - 7 - 1	/ 6 7 7 0 Bu	A			Sto	oper gum	0	0)
II GUN	M 6 7 9 7 0 11 2 -	AE		- C	Scre	9W	0	0	_
	D40P10000 M6708BHZZ	AA		- C	Gun	n leg	0	1-8	
		BB		T B	Scre	ew (M4 × 10)	0	100	_
I M O L H	8 6 7 5 4 DILLE -	_ AA		C	Scre	om plate w (3 × 8)	ō	1 8	\dashv
		AF	N	C	Earth		0	Ŏ	\dashv
		AA		C	_ Roile	Test edital appling)	0	0	
		AD	N	C	Nut (M6)	0	0	\Box
	6700BHZZ 6711BHZZ	BB	N	D	Pape	r pad	0	0	4
		AP	N	C	Mone	y case (5B/8C)	0	0	-
		AF	N-	C	Bill gu	uide angle-A	ŏ	0	\dashv
		AN	N	C	Fixing	angle-A	0	0	1
		BH	1	C	Screw	(3 × 8)	0		
		BF	N	LE.	Money	/ Case Unit /SP/nov	0]
		BE	N	E	Pottou	1 plate upit	8		4
211W-	6 6 8 1 B H Z Z (Unit)	BC	N	E	Lock u	nit	8	0	-1
BOXD	714101177				Drawei	case unit [include No.24-27,29,30]	5 +	-6-	1
BOXD	7143BHZZ	BW	N	E	Drawer	box unit [include No.10~16]	0	-	1
		BW	N	E	Drawer				1
						box unit [except No.44-46]	0		1
								0	

_				
61	B.4	-	unit[FR-	
01	เงเลเท	PIME	unitED	
_			unmer.	A2101

	HENTI WE UNITEH	I-A310]			
NO.	PARTS CODE	PRICE NE		T	
= 1	VHDDSS133HV-1 VHD1N4002G/-1	AA	K RANK	Diode (DSS133HV)	DESCRIPTION
	VHDPS102R//-1 VRD-RC2EY100J	AA	ВВ	LUIOde (1N4002G)	[D3,7~21,24,28
	A U II - B C O F V 4 & -	AA	С	Diode (PS102R) Resistor (1/4W 10Ω ±5%)	[D6,2]
71	VRD-RC2EY102J	AA	C	Resistor (1/4W 1 KΩ ±2%)	[D-
9 V	AD-HC2EY105J	AA AA		TUSISION (1/4W/ 100VO 150V)	[R53,58,59,60,64,66,73~77,80
1014	RD-RC2EY123J	AA	-	Resistor (1/4W 1.0MΩ ±5%) Resistor (1/4W 30Ω ±5%)	[R5 [R100,101
_ IA V	TU-BCOEVA AA	AA	C	Resistor (1/4W 12KΩ ±5%)	(P20 07
_ 1-F [V]	RD-RC2EY221J RD-RC2EY222J	AA	CI	Resistor (1/4W 18KΩ ±5%)	[R1,39,121~130,78,79,131,132,133 [R54,55,61]
16 V	RD-RC2EY223J	AA		TESISION (1/4W 2 2KO LEDG)	[R69] [R9,111~120]
18 V	BD-BC2EY332J	AA AA		Resistor (1/4W 22KΩ ±5%) Resistor (1/4W 2.7KΩ ±5%)	[111,13,15,17,19,21,23,25,27,29,38]
19 V F	RD-RC2EY362G	AA	CR	esistor (1/4W 3.3KΩ ±5%) esistor (1/4W 330KΩ ±5%)	[R68,71] [R4]
			CR	esistor (1/4W 3.9KΩ ±2%)	[R57,70]

SHARP

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> > 1996 November Printed in Japan (\$)